

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458377

Luminaire Tested: **GALN-SA9D-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69511 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

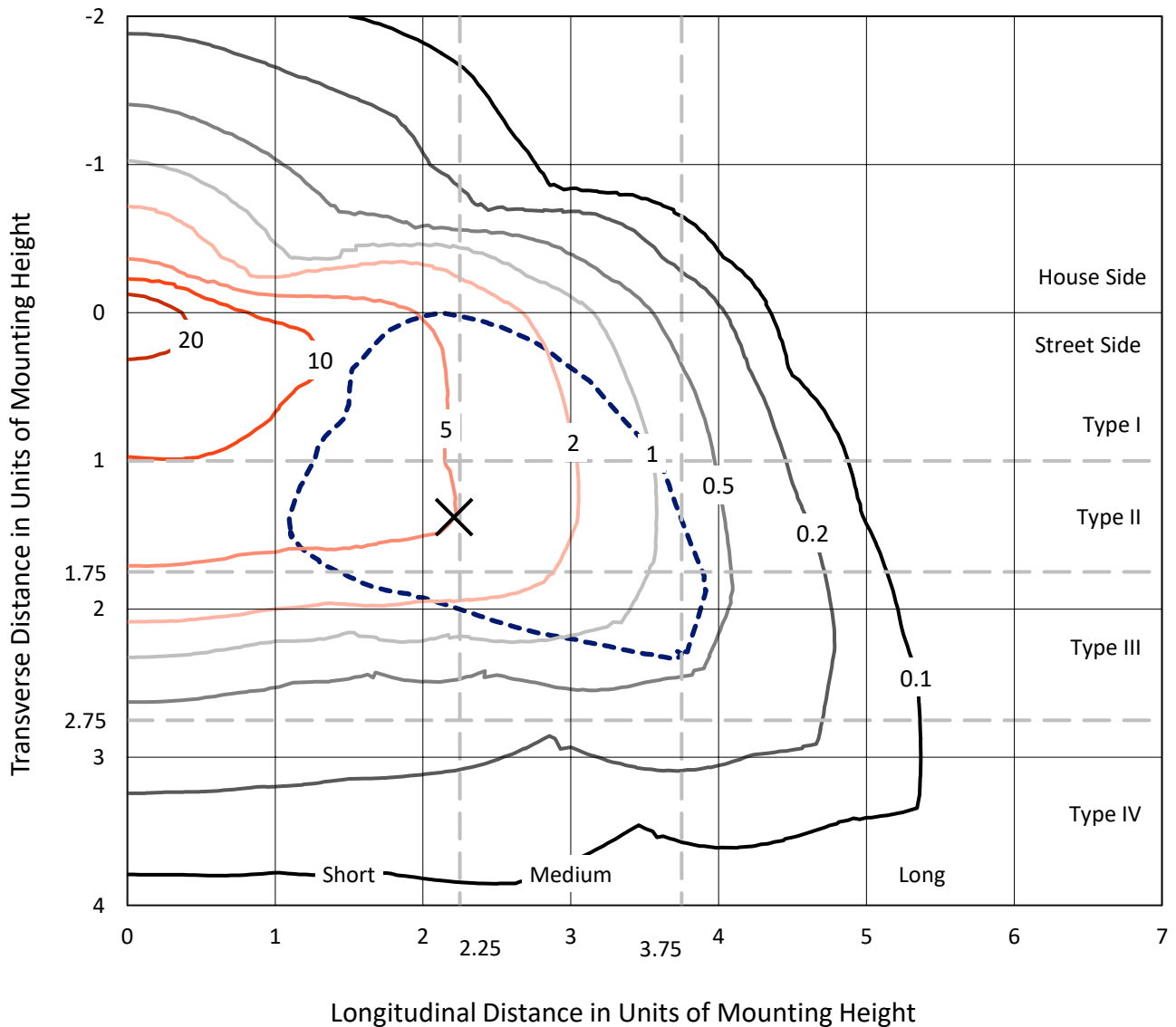
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

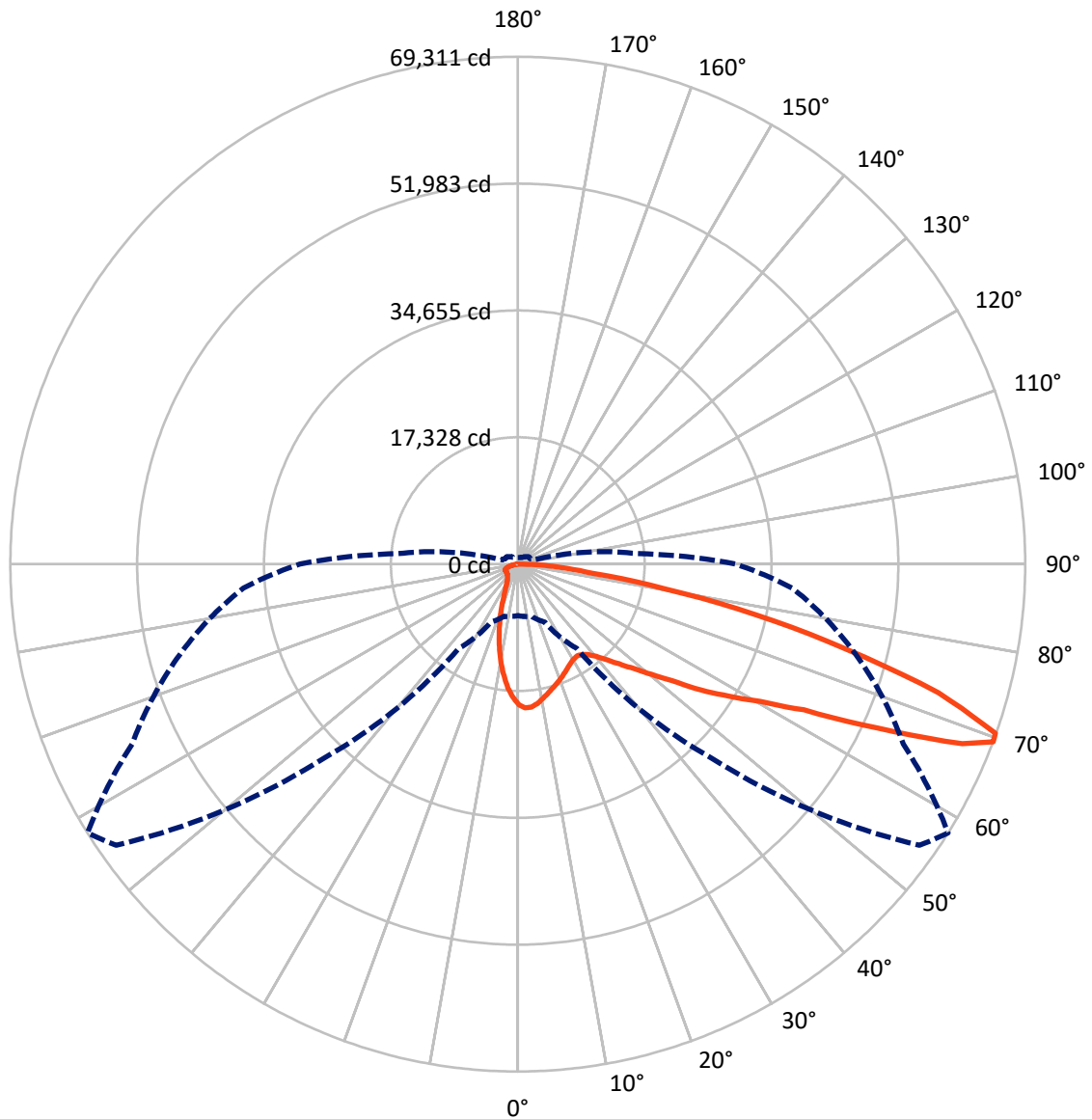
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10186.8	0.0	10186.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	59324.2	0.0	59324.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	69511.0	0.0	69511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1631.3	2.3
10°-20°	3582.0	5.2
20°-30°	4628.0	6.7
30°-40°	6010.9	8.6
40°-50°	8739.0	12.6
50°-60°	13944.6	20.1
60°-70°	18628.3	26.8
70°-80°	10738.4	15.4
80°-90°	1608.4	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	69511.0	100.0
0°-180°	69511.0	100.0

Coefficient of Utilization



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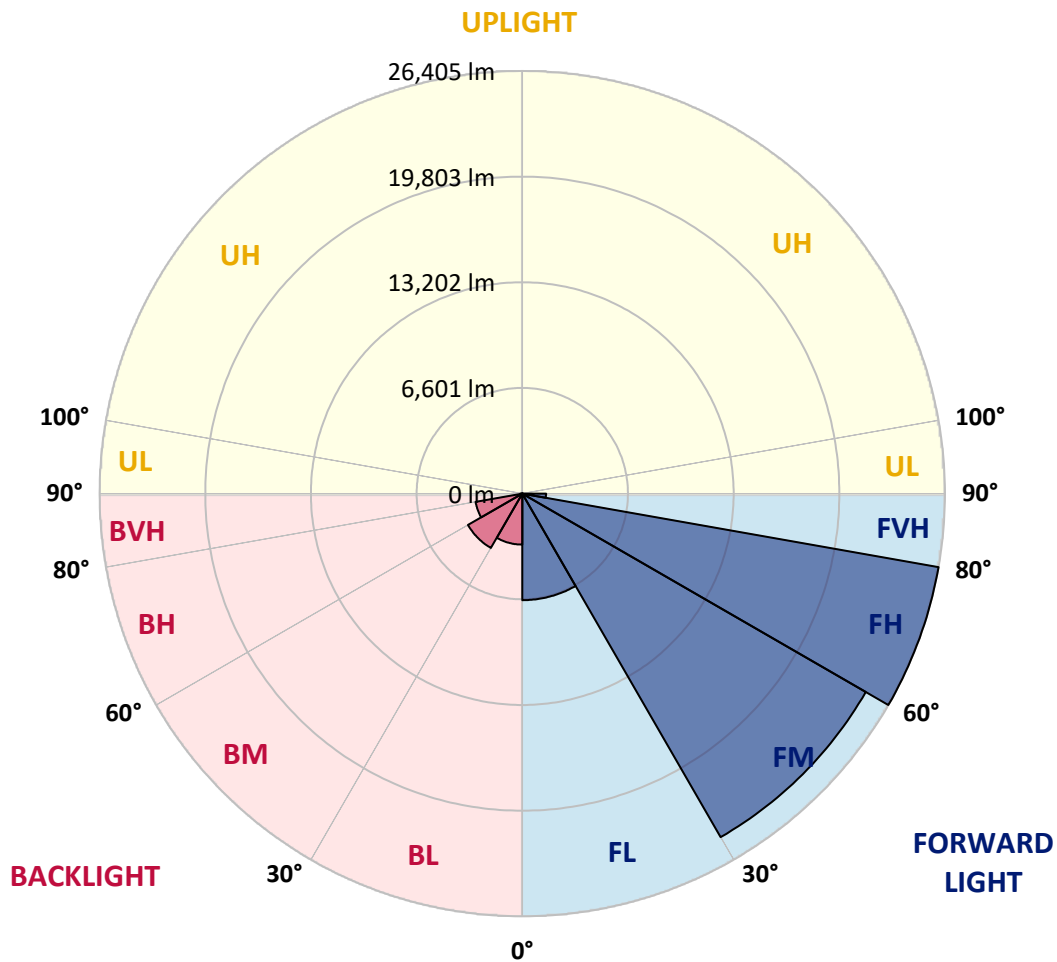
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6657.4	9.6			
FM (30°-60°)	24777.1	35.6			
FH (60°-80°)	26404.6	38.0			G5
FVH (80°-90°)	1485.2	2.1			G5
BL (0°-30°)	3184.0	4.6	B4/5000		
BM (30°-60°)	3917.5	5.6	B3/5000		
BH (60°-80°)	2962.1	4.3	B4/5000		G4/5000
BVH (80°-90°)	123.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8
2.5°	19922.1	19976.3	19960.8	19941.5	19910.4	19825.2	19685.6	19662.3	19573.2	19383.2	19146.7
5°	19615.8	19662.3	19666.2	19693.4	19732.1	19716.6	19615.8	19604.2	19472.4	19216.5	18821.1
7.5°	18565.2	18627.3	18763.0	18914.1	19049.8	19177.8	19208.8	19228.2	19146.7	18852.1	18324.9
10°	17382.9	17444.9	17506.9	17731.8	18065.2	18383.0	18646.7	18681.5	18700.9	18429.6	17786.0
12.5°	16072.6	16200.5	16332.3	16665.7	17111.5	17611.6	18076.8	18150.4	18282.3	18076.8	17320.8
15°	14960.0	15091.8	15281.7	15580.2	16119.1	16840.1	17495.3	17615.5	17875.2	17770.5	16886.7
17.5°	14188.5	14235.0	14366.8	14708.0	15289.5	16049.3	16925.4	17165.8	17580.6	17553.4	16514.5
20°	13579.9	13638.0	13719.4	13928.8	14533.5	15336.0	16394.3	16704.5	17266.6	17359.6	16146.2
22.5°	13324.0	13366.7	13355.0	13467.5	13878.4	14684.7	15855.5	16223.8	16987.5	17227.8	15805.1
25°	13339.5	13378.3	13320.1	13293.0	13537.2	14111.0	15293.4	15762.4	16762.6	17138.6	15494.9
27.5°	13599.3	13626.4	13517.9	13409.3	13428.7	13754.3	14828.2	15347.6	16572.7	17177.4	15235.2
30°	13948.2	13998.6	13928.8	13797.0	13653.5	13669.0	14529.7	15041.4	16483.5	17313.1	15111.2
32.5°	14397.9	14444.4	14413.4	14308.7	14122.6	13917.2	14456.0	14929.0	16491.2	17588.3	15084.0
35°	14870.8	14963.8	15014.2	15006.5	14855.3	14498.6	14746.8	15138.3	16677.3	18049.7	15243.0
37.5°	15405.8	15483.3	15700.4	15840.0	15700.4	15285.6	15401.9	15673.3	17088.2	18716.4	15591.9
40°	15925.3	16041.6	16359.4	16793.6	16739.3	16374.9	16402.1	16580.4	17813.2	19708.9	16274.2
42.5°	16468.0	16607.5	17161.9	17805.4	17933.4	17650.4	17724.0	17883.0	18844.4	21085.1	17444.9
45°	17165.8	17332.5	18014.8	18817.2	19321.2	19146.7	19356.1	19433.6	20224.5	22876.1	18987.8
47.5°	18065.2	18259.0	19100.2	20100.4	20813.7	20972.6	21337.0	21290.5	21934.1	24996.6	20988.2
50°	19580.9	19689.5	20484.2	21503.7	22484.5	23201.7	23597.1	23670.8	24054.6	27059.0	23225.0
52.5°	21383.6	21480.5	22054.2	22945.9	24174.8	25694.4	26671.3	26431.0	26524.0	29571.0	25841.7
55°	23411.1	23573.9	23938.3	24531.4	26124.7	28361.5	30323.1	30381.3	29350.1	31974.6	28349.9
57.5°	24981.1	25256.3	25880.5	26725.6	28745.3	31327.2	33963.3	34002.0	32684.0	34540.9	31117.8
60°	24190.3	24515.9	25942.5	28001.0	32183.9	36502.5	38312.9	38091.9	35928.7	37463.9	34494.4
62.5°	20778.8	20837.0	22911.0	26128.6	33242.2	43426.2	44786.9	43852.6	40258.9	41170.0	37925.2
65°	13448.1	13828.0	15471.7	19980.2	29764.9	47267.9	56129.9	53970.6	46329.8	45376.1	40797.8
67.5°	8489.9	8392.9	9075.2	11409.0	20472.6	43883.6	65809.9	65468.8	54269.1	48031.6	40111.6
69°	7040.0	7148.5	7381.1	8745.7	14087.7	37467.8	66953.5	69310.5	58118.6	47822.3	37619.0
70°	6384.8	6435.2	6679.5	7753.3	10870.1	31381.4	65077.2	69205.8	59630.5	46946.2	35812.4
72.5°	5066.8	5062.9	5481.6	6450.7	8125.4	17914.0	53435.7	60084.1	57940.3	42867.9	29590.4
75°	3849.5	3911.5	4372.9	5458.3	7485.8	9788.5	37289.4	46271.6	46275.5	33858.6	18464.5
77.5°	2775.7	2814.4	3353.3	4582.2	7051.6	7935.5	24837.7	33187.9	31199.2	15514.3	5803.3
80°	1818.1	1841.4	2252.3	3628.5	6357.7	7485.8	14727.4	20313.6	14715.7	4117.0	1918.9
82.5°	996.3	1112.6	1376.2	2349.2	5101.7	6915.9	8951.2	10280.9	5520.3	1833.7	1000.2
85°	500.1	531.1	775.3	1372.3	3333.9	5721.9	6233.6	5896.4	2849.3	911.0	519.5
87.5°	147.3	186.1	321.8	531.1	1352.9	2981.1	3469.6	3112.9	1097.1	329.5	108.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8	19208.8
2.5°	19049.8	18980.0	18669.9	18390.8	18134.9	17863.6	17634.9	17433.3	17452.7	17456.5	17251.1
5°	18615.6	18456.7	17867.5	17317.0	16851.8	16262.5	15758.6	15432.9	15270.1	15053.0	15130.5
7.5°	18026.4	17720.1	16902.2	15987.3	15130.5	14366.8	13537.2	12967.4	12603.0	12250.2	12296.7
10°	17417.8	16925.4	15735.3	14525.8	13417.1	12195.9	11137.6	10230.5	9555.9	9303.9	9137.2
12.5°	16793.6	16146.2	14634.3	13025.5	11494.2	10032.8	8532.5	7559.5	6815.1	6419.7	6470.1
15°	16223.8	15436.8	13486.8	11525.3	9536.5	7795.9	6299.5	5373.0	4853.6	4745.0	4807.0
17.5°	15696.5	14665.3	12413.0	10067.6	7745.5	5846.0	4733.4	4210.0	4000.7	3942.5	3938.7
20°	15153.8	14010.2	11207.4	8509.2	6035.9	4531.8	3884.4	3640.2	3601.4	3624.7	3628.5
22.5°	14603.3	13200.0	9966.9	6962.5	4807.0	3706.1	3395.9	3330.0	3361.1	3415.3	3423.1
25°	14095.5	12486.7	8772.8	5605.6	3837.9	3256.4	3105.2	3105.2	3175.0	3256.4	3260.3
27.5°	13676.8	11796.6	7582.7	4450.4	3213.7	2930.7	2880.3	2907.5	3004.4	3066.4	3070.3
30°	13331.8	11153.1	6458.5	3566.5	2826.1	2671.0	2659.4	2705.9	2775.7	2833.8	2837.7
32.5°	13072.0	10587.1	5407.9	2996.6	2558.6	2473.3	2469.4	2504.3	2543.1	2558.6	2574.1
35°	12971.3	10118.0	4446.5	2636.1	2380.3	2326.0	2326.0	2322.1	2337.6	2345.4	2353.1
37.5°	13052.7	9757.5	3702.2	2403.5	2248.5	2209.7	2186.4	2163.2	2155.4	2155.4	2159.3
40°	13397.7	9567.6	3147.8	2252.3	2155.4	2097.3	2054.6	2027.5	2000.3	2008.1	2015.9
42.5°	14130.4	9602.4	2771.8	2151.5	2074.0	1992.6	1930.6	1899.6	1880.2	1903.4	1899.6
45°	15297.2	9951.3	2531.4	2081.8	1992.6	1887.9	1829.8	1798.8	1798.8	1833.7	1845.3
47.5°	16929.3	10618.1	2403.5	2027.5	1930.6	1806.5	1748.4	1725.1	1732.9	1791.0	1794.9
50°	18921.9	11777.2	2380.3	2000.3	1899.6	1748.4	1682.5	1659.2	1678.6	1740.6	1748.4
52.5°	21120.0	13269.8	2492.7	2004.2	1872.4	1713.5	1628.2	1593.3	1612.7	1663.1	1678.6
55°	23725.1	15138.3	2783.4	2019.7	1833.7	1694.1	1589.4	1511.9	1535.2	1570.0	1573.9
57.5°	26384.4	17495.3	3295.1	2023.6	1802.6	1659.2	1523.5	1422.7	1422.7	1446.0	1457.6
60°	29633.1	20061.6	3969.7	2027.5	1806.5	1608.8	1434.4	1321.9	1306.4	1318.1	1321.9
62.5°	32858.4	22209.3	4082.1	2015.9	1845.3	1558.4	1337.4	1221.1	1194.0	1190.1	1182.4
65°	34281.2	21810.0	3345.5	1961.6	1887.9	1527.4	1259.9	1124.2	1077.7	1062.2	1062.2
67.5°	31962.9	18448.9	2515.9	1887.9	1860.8	1496.4	1186.3	1042.8	988.5	957.5	957.5
69°	29784.3	16409.8	2260.1	1837.5	1791.0	1446.0	1139.7	1000.2	934.3	899.4	887.8
70°	28101.8	15006.5	2151.5	1794.9	1725.1	1387.8	1104.8	969.2	895.5	856.7	849.0
72.5°	22426.4	11773.4	1884.0	1632.1	1469.2	1166.9	980.8	872.2	802.5	759.8	748.2
75°	12924.7	6381.0	1562.3	1418.9	1182.4	907.1	829.6	759.8	705.5	666.8	655.2
77.5°	3977.4	2465.5	1132.0	1120.4	868.4	701.7	662.9	635.8	597.0	554.4	546.6
80°	1674.7	1256.0	767.6	755.9	577.6	488.5	476.8	473.0	457.4	422.6	410.9
82.5°	918.8	709.4	535.0	465.2	348.9	283.0	294.6	298.5	286.9	252.0	228.7
85°	449.7	387.7	259.7	209.3	158.9	100.8	96.9	116.3	108.5	77.5	85.3
87.5°	89.2	108.5	69.8	31.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)