

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: P459537

Luminaire Tested: **GALN-SA9D-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459537
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-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 64753 lumens
Efficiency: N/A
Efficacy: 117.3 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

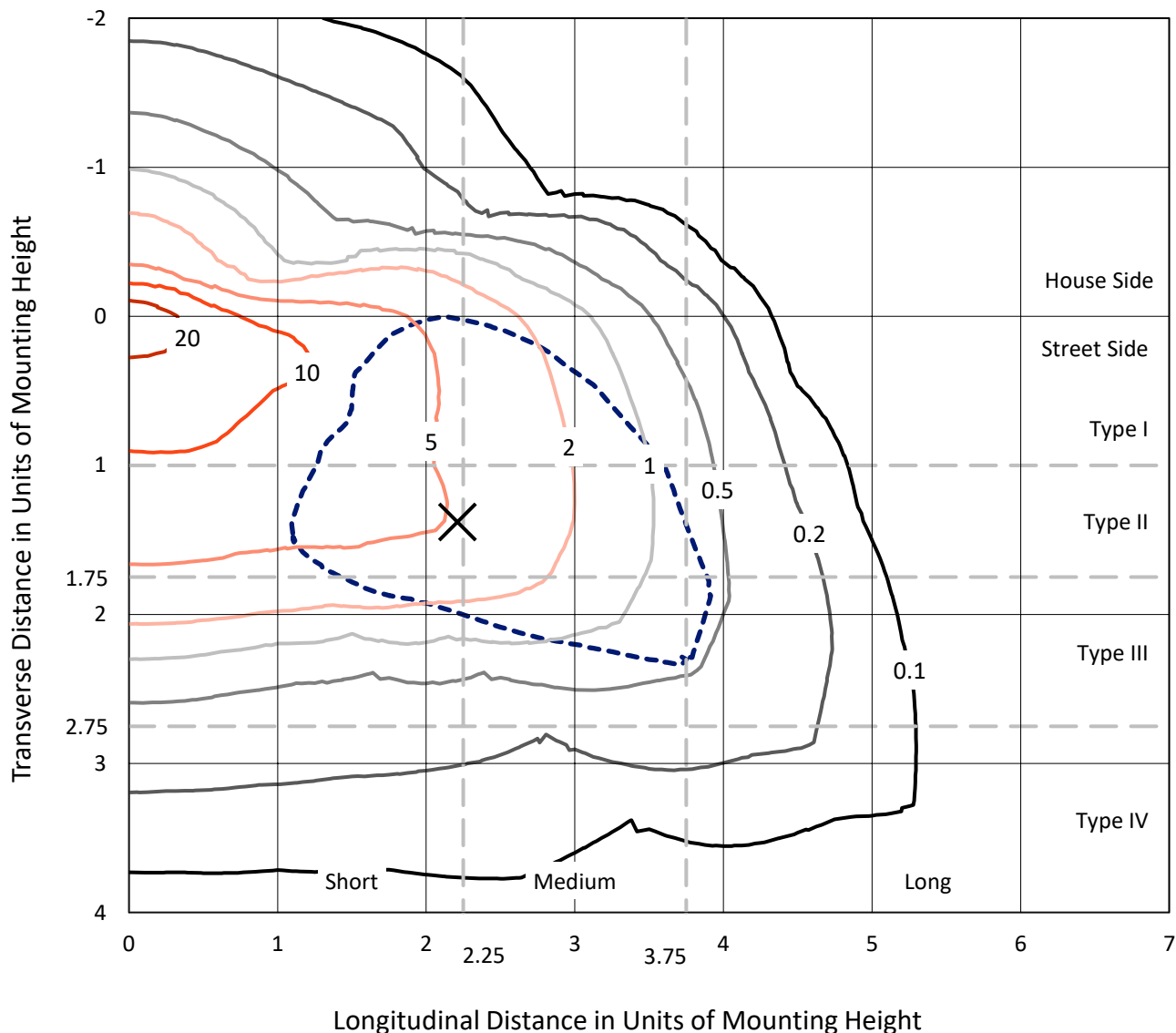
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

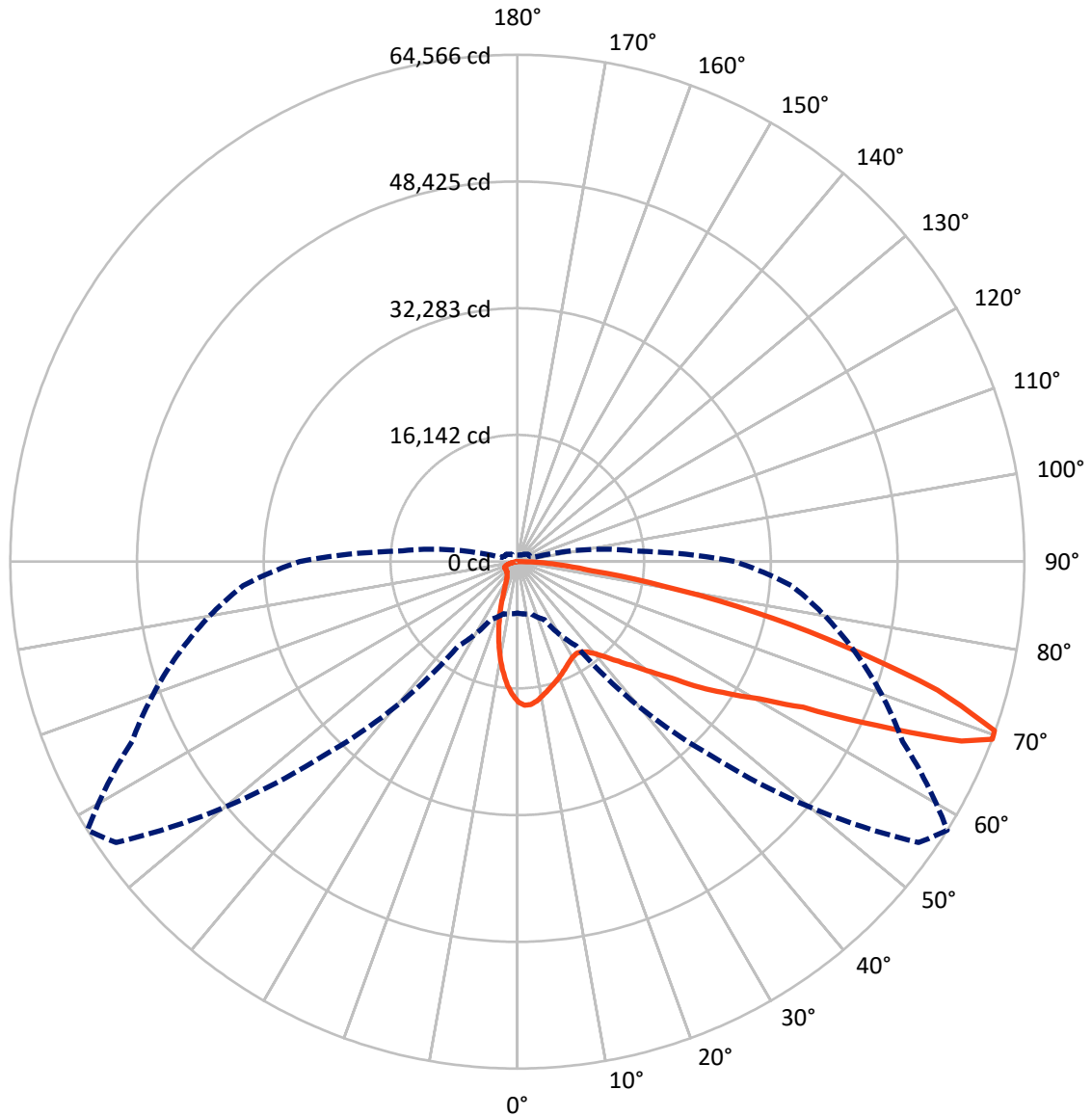
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 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	9489.5	0.0	9489.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	55263.4	0.0	55263.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	64753.0	0.0	64753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1519.6	2.3
10°-20°	3336.9	5.2
20°-30°	4311.2	6.7
30°-40°	5599.5	8.6
40°-50°	8140.8	12.6
50°-60°	12990.1	20.1
60°-70°	17353.2	26.8
70°-80°	10003.4	15.4
80°-90°	1498.3	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°	64753.0	100.0
0°-180°	64753.0	100.0

Coefficient of Utilization



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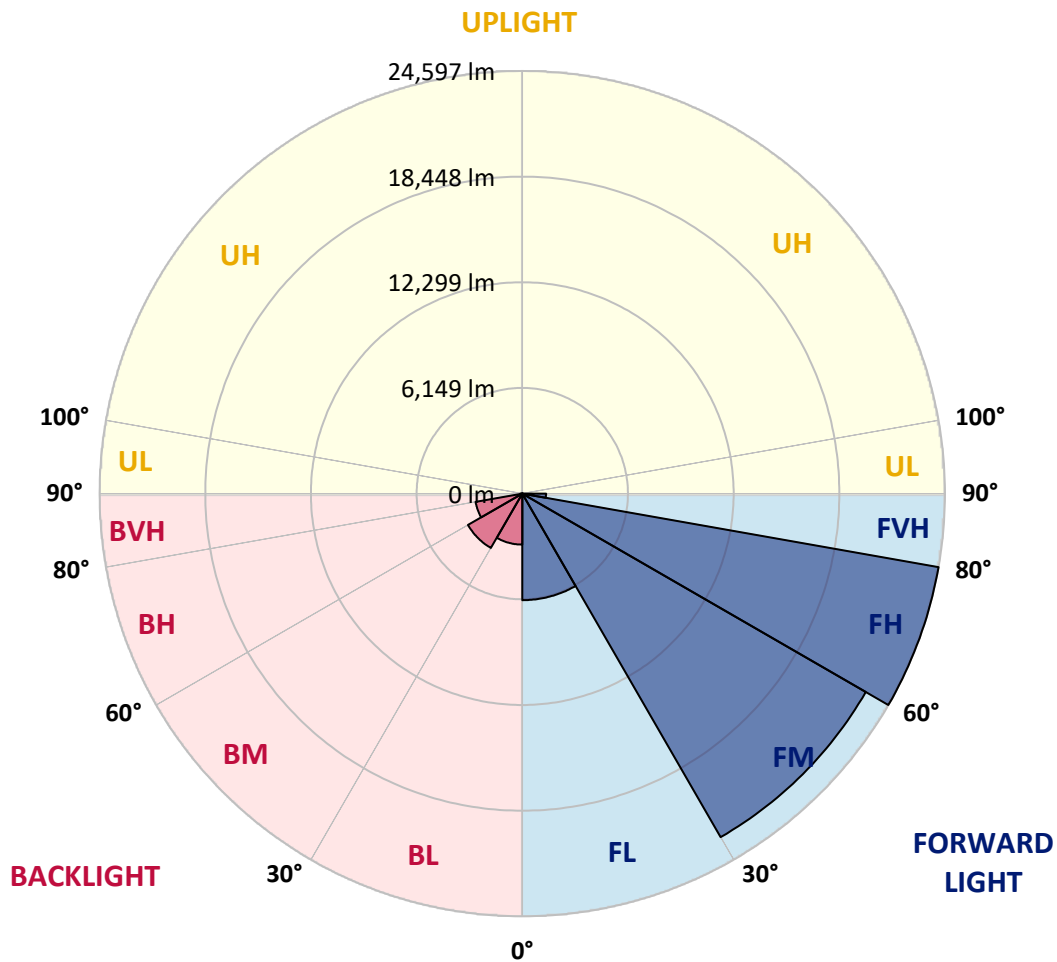
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6201.7	9.6			
FM (30°-60°)	23081.1	35.6			
FH (60°-80°)	24597.2	38.0			G5
FVH (80°-90°)	1383.5	2.1			G5
BL (0°-30°)	2966.0	4.6	B4/5000		
BM (30°-60°)	3649.3	5.6	B3/5000		
BH (60°-80°)	2759.4	4.3	B4/5000		G4/5000
BVH (80°-90°)	114.8	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°	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9
2.5°	18558.4	18609.0	18594.5	18576.5	18547.6	18468.1	18338.1	18316.5	18233.4	18056.4	17836.2
5°	18273.1	18316.5	18320.1	18345.3	18381.5	18367.0	18273.1	18262.3	18139.5	17901.2	17532.8
7.5°	17294.5	17352.2	17478.6	17619.5	17745.9	17865.0	17893.9	17912.0	17836.2	17561.7	17070.6
10°	16193.0	16250.8	16308.6	16518.0	16828.6	17124.7	17370.3	17402.8	17420.9	17168.1	16568.6
12.5°	14972.4	15091.6	15214.4	15524.9	15940.2	16406.1	16839.4	16908.1	17030.8	16839.4	16135.2
15°	13936.0	14058.7	14235.7	14513.8	15015.7	15687.4	16297.7	16409.7	16651.7	16554.1	15730.8
17.5°	13217.3	13260.7	13383.4	13701.2	14242.9	14950.7	15766.9	15990.8	16377.2	16351.9	15384.1
20°	12650.3	12704.5	12780.4	12975.4	13538.7	14286.3	15272.1	15561.0	16084.7	16171.4	15041.0
22.5°	12412.0	12451.7	12440.9	12545.6	12928.4	13679.6	14770.2	15113.2	15824.7	16048.6	14723.2
25°	12426.4	12462.6	12408.4	12383.1	12610.6	13145.1	14246.5	14683.5	15615.2	15965.5	14434.3
27.5°	12668.4	12693.7	12592.6	12491.4	12509.5	12812.9	13813.2	14297.1	15438.3	16001.6	14192.4
30°	12993.4	13040.4	12975.4	12852.6	12719.0	12733.4	13535.1	14011.8	15355.2	16128.0	14076.8
32.5°	13412.3	13455.7	13426.8	13329.3	13155.9	12964.5	13466.5	13907.1	15362.4	16384.4	14051.5
35°	13852.9	13939.6	13986.5	13979.3	13838.5	13506.2	13737.3	14102.1	15535.8	16814.2	14199.6
37.5°	14351.3	14423.5	14625.7	14755.7	14625.7	14239.3	14347.7	14600.4	15918.6	17435.3	14524.6
40°	14835.2	14943.5	15239.6	15644.1	15593.5	15254.1	15279.4	15445.5	16593.9	18359.8	15160.2
42.5°	15340.8	15470.8	15987.2	16586.7	16705.8	16442.2	16510.8	16658.9	17554.5	19641.8	16250.8
45°	15990.8	16146.1	16781.7	17529.2	17998.7	17836.2	18031.2	18103.4	18840.1	21310.2	17688.1
47.5°	16828.6	17009.2	17792.8	18724.5	19389.0	19537.1	19876.5	19833.2	20432.7	23285.6	19551.5
50°	18240.6	18341.7	19082.1	20031.8	20945.5	21613.6	21981.9	22050.5	22408.0	25206.8	21635.2
52.5°	19919.9	20010.2	20544.6	21375.2	22520.0	23935.6	24845.7	24621.8	24708.4	27546.9	24072.9
55°	21808.6	21960.2	22299.7	22852.2	24336.5	26420.2	28247.5	28301.7	27341.1	29785.9	26409.4
57.5°	23271.1	23527.5	24109.0	24896.2	26777.7	29182.8	31638.5	31674.6	30446.8	32176.6	28987.8
60°	22534.4	22837.8	24166.7	26084.3	29980.9	34003.9	35690.4	35484.5	33469.4	34899.5	32133.3
62.5°	19356.5	19410.7	21342.7	24340.1	30966.8	40453.7	41721.2	40850.9	37503.2	38351.9	35329.2
65°	12527.6	12881.5	14412.7	18612.6	27727.5	44032.4	52287.9	50276.4	43158.5	42270.1	38005.2
67.5°	7908.7	7818.4	8454.0	10628.0	19071.2	40879.8	61305.2	60987.5	50554.4	44743.9	37366.0
69°	6558.1	6659.2	6875.9	8147.1	13123.4	34903.1	62370.6	64566.2	54140.4	44548.9	35044.0
70°	5947.8	5994.7	6222.3	7222.6	10126.1	29233.4	60622.7	64468.7	55548.9	43732.7	33361.1
72.5°	4720.0	4716.3	5106.4	6009.2	7569.3	16687.8	49778.0	55971.4	53974.3	39933.6	27565.0
75°	3586.0	3643.8	4073.5	5084.7	6973.4	9118.5	34737.0	43104.3	43108.0	31541.0	17200.6
77.5°	2585.7	2621.8	3123.8	4268.5	6568.9	7392.3	23137.5	30916.2	29063.7	14452.4	5406.1
80°	1693.7	1715.4	2098.2	3380.2	5922.5	6973.4	13719.3	18923.2	13708.5	3835.2	1787.6
82.5°	928.1	1036.4	1282.0	2188.4	4752.5	6442.5	8338.5	9577.1	5142.5	1708.1	931.7
85°	465.9	494.7	722.3	1278.4	3105.7	5330.3	5807.0	5492.8	2654.3	848.7	483.9
87.5°	137.2	173.3	299.7	494.7	1260.3	2777.1	3232.1	2899.9	1022.0	307.0	101.1
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°	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9	17893.9
2.5°	17745.9	17680.9	17392.0	17132.0	16893.6	16640.8	16427.8	16240.0	16258.0	16261.6	16070.2
5°	17341.4	17193.3	16644.4	16131.6	15698.3	15149.4	14679.9	14376.5	14224.9	14022.6	14094.9
7.5°	16792.5	16507.2	15745.2	14893.0	14094.9	13383.4	12610.6	12079.8	11740.3	11411.7	11455.0
10°	16225.5	15766.9	14658.2	13531.5	12498.7	11361.1	10375.2	9530.2	8901.8	8667.1	8511.8
12.5°	15644.1	15041.0	13632.6	12133.9	10707.5	9346.0	7948.4	7042.0	6348.6	5980.3	6027.2
15°	15113.2	14380.2	12563.7	10736.4	8883.8	7262.3	5868.3	5005.2	4521.3	4420.2	4478.0
17.5°	14622.1	13661.5	11563.3	9378.5	7215.4	5445.8	4409.4	3921.9	3726.9	3672.7	3669.1
20°	14116.5	13051.2	10440.2	7926.8	5622.8	4221.6	3618.5	3391.0	3354.9	3376.6	3380.2
22.5°	13603.7	12296.4	9284.6	6485.9	4478.0	3452.4	3163.5	3102.1	3131.0	3181.5	3188.8
25°	13130.6	11632.0	8172.3	5221.9	3575.2	3033.5	2892.6	2892.6	2957.6	3033.5	3037.1
27.5°	12740.6	10989.2	7063.7	4145.8	2993.8	2730.1	2683.2	2708.5	2798.7	2856.5	2860.1
30°	12419.2	10389.7	6016.4	3322.4	2632.6	2488.2	2477.3	2520.7	2585.7	2639.9	2643.5
32.5°	12177.3	9862.4	5037.7	2791.5	2383.5	2304.0	2300.4	2332.9	2369.0	2383.5	2397.9
35°	12083.4	9425.5	4142.1	2455.7	2217.3	2166.8	2166.8	2163.2	2177.6	2184.8	2192.1
37.5°	12159.2	9089.6	3448.8	2239.0	2094.5	2058.4	2036.8	2015.1	2007.9	2007.9	2011.5
40°	12480.6	8912.7	2932.4	2098.2	2007.9	1953.7	1914.0	1888.7	1863.4	1870.6	1877.9
42.5°	13163.1	8945.2	2582.1	2004.3	1932.0	1856.2	1798.4	1769.5	1751.5	1773.1	1769.5
45°	14250.1	9270.2	2358.2	1939.3	1856.2	1758.7	1704.5	1675.6	1675.6	1708.1	1719.0
47.5°	15770.5	9891.3	2239.0	1888.7	1798.4	1682.9	1628.7	1607.0	1614.2	1668.4	1672.0
50°	17626.7	10971.1	2217.3	1863.4	1769.5	1628.7	1567.3	1545.6	1563.7	1621.5	1628.7
52.5°	19674.3	12361.4	2322.1	1867.0	1744.3	1596.2	1516.7	1484.2	1502.3	1549.2	1563.7
55°	22101.1	14102.1	2592.9	1881.5	1708.1	1578.1	1480.6	1408.4	1430.1	1462.6	1466.2
57.5°	24578.4	16297.7	3069.6	1885.1	1679.2	1545.6	1419.2	1325.3	1325.3	1347.0	1357.8
60°	27604.7	18688.4	3698.0	1888.7	1682.9	1498.7	1336.2	1231.4	1217.0	1227.8	1231.4
62.5°	30609.3	20689.1	3802.7	1877.9	1719.0	1451.7	1245.9	1137.6	1112.3	1108.7	1101.4
65°	31934.6	20317.1	3116.5	1827.3	1758.7	1422.8	1173.7	1047.3	1003.9	989.5	989.5
67.5°	29775.1	17186.1	2343.7	1758.7	1733.4	1394.0	1105.1	971.4	920.9	892.0	892.0
69°	27745.5	15286.6	2105.4	1711.8	1668.4	1347.0	1061.7	931.7	870.3	837.8	827.0
70°	26178.2	13979.3	2004.3	1672.0	1607.0	1292.8	1029.2	902.8	834.2	798.1	790.9
72.5°	20891.3	10967.5	1755.1	1520.4	1368.7	1087.0	913.7	812.5	747.5	707.8	697.0
75°	12040.0	5944.2	1455.3	1321.7	1101.4	845.0	772.8	707.8	657.3	621.1	610.3
77.5°	3705.2	2296.8	1054.5	1043.7	808.9	653.6	617.5	592.3	556.1	516.4	509.2
80°	1560.1	1170.1	715.0	704.2	538.1	455.0	444.2	440.6	426.1	393.6	382.8
82.5°	855.9	660.9	498.4	433.4	325.0	263.6	274.5	278.1	267.2	234.7	213.1
85°	418.9	361.1	242.0	195.0	148.1	93.9	90.3	108.3	101.1	72.2	79.4
87.5°	83.1	101.1	65.0	28.9	14.4	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)