

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: P456057

Luminaire Tested: **GALN-SA7B-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456057
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-SA7B-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 39283 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

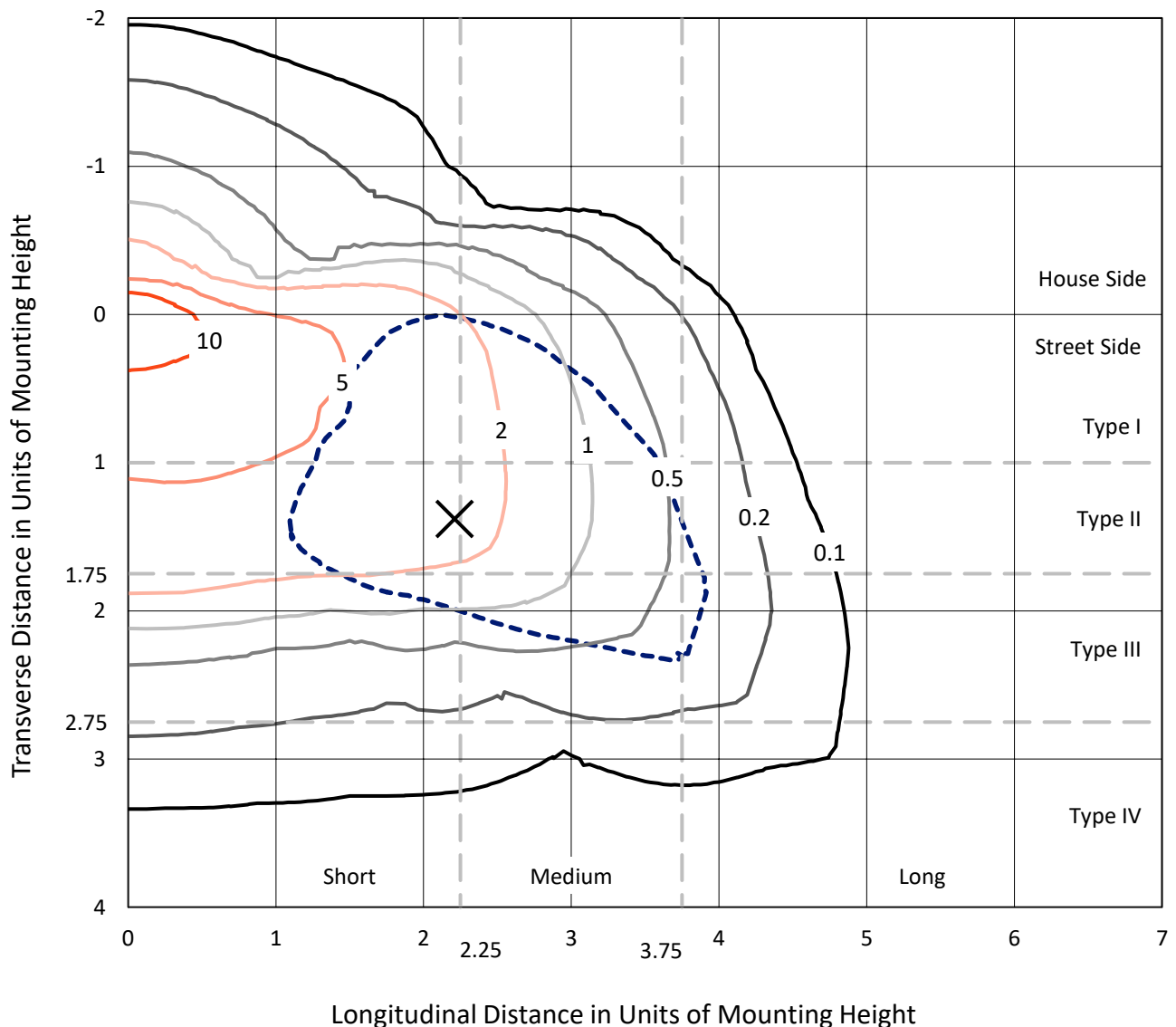
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

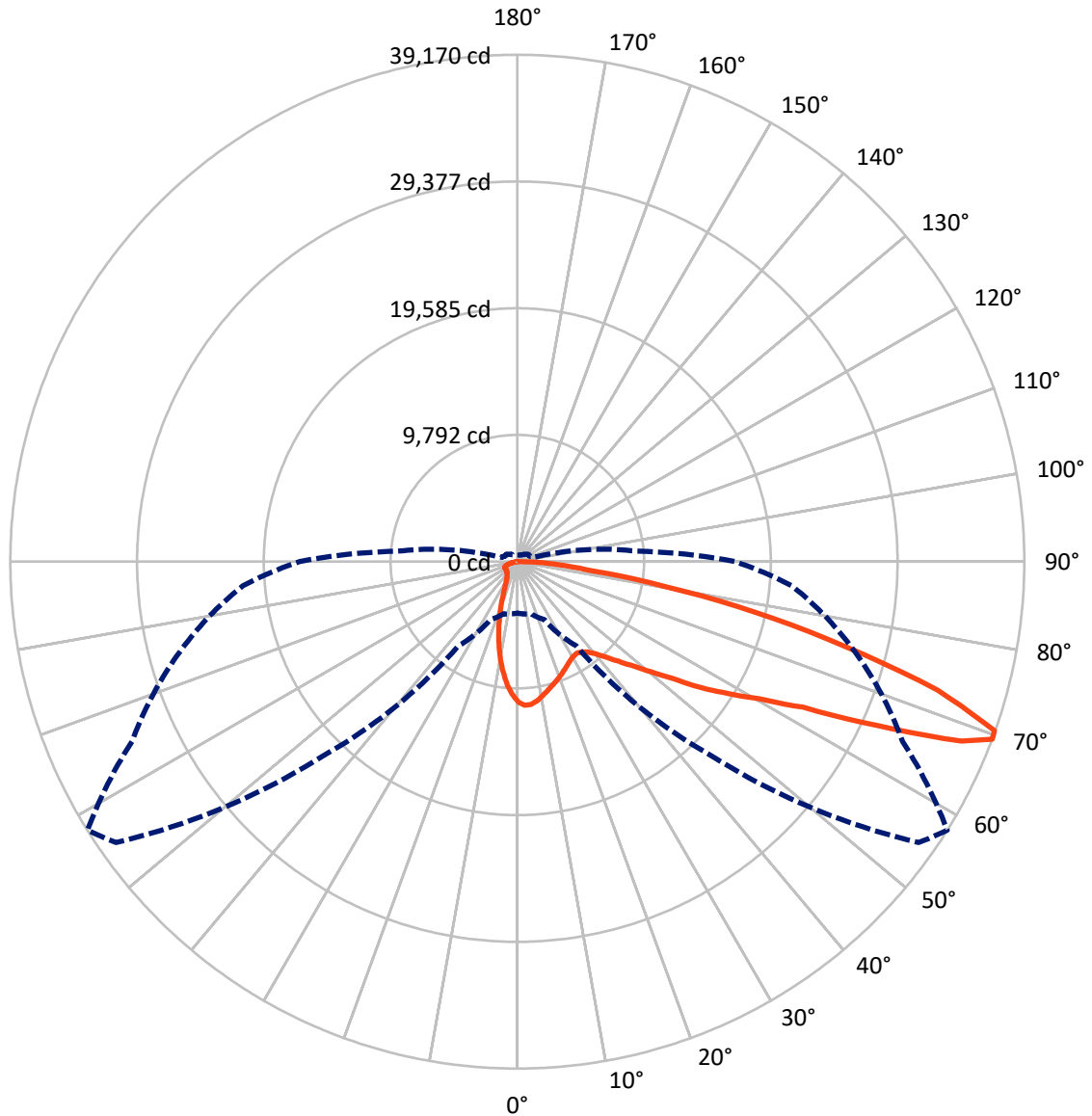
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	5756.9	0.0	5756.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	33526.1	0.0	33526.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	39283.0	0.0	39283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.9	2.3
10°-20°	2024.3	5.2
20°-30°	2615.5	6.7
30°-40°	3397.0	8.6
40°-50°	4938.7	12.6
50°-60°	7880.6	20.1
60°-70°	10527.5	26.8
70°-80°	6068.6	15.4
80°-90°	909.0	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°	39283.0	100.0
0°-180°	39283.0	100.0

Coefficient of Utilization



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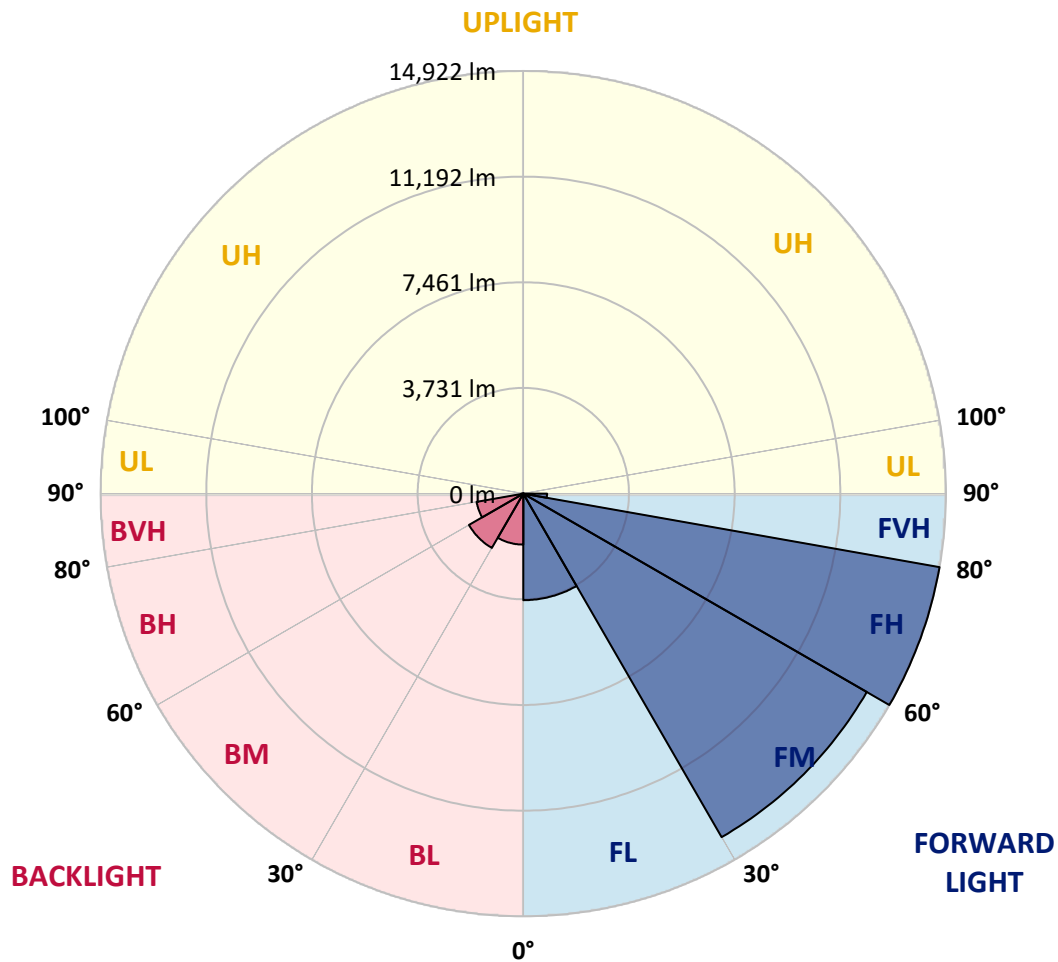
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3762.3	9.6			
FM	(30°-60°)	14002.3	35.6			
FH	(60°-80°)	14922.1	38.0			G5
FVH	(80°-90°)	839.3	2.1			G5
BL	(0°-30°)	1799.4	4.6	B3/2500		
BM	(30°-60°)	2213.9	5.6	B2/2500		
BH	(60°-80°)	1674.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	69.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5
2.5°	11258.6	11289.3	11280.5	11269.6	11252.1	11203.9	11125.0	11111.8	11061.5	10954.1	10820.5
5°	11085.6	11111.8	11114.0	11129.4	11151.3	11142.5	11085.6	11079.0	11004.5	10859.9	10636.4
7.5°	10491.8	10526.9	10603.6	10689.0	10765.7	10838.0	10855.5	10866.5	10820.5	10654.0	10356.0
10°	9823.6	9858.7	9893.8	10020.8	10209.2	10388.9	10537.9	10557.6	10568.5	10415.2	10051.5
12.5°	9083.1	9155.4	9229.9	9418.3	9670.3	9952.9	10215.8	10257.4	10331.9	10215.8	9788.6
15°	8454.4	8528.9	8636.2	8804.9	9109.4	9516.9	9887.2	9955.1	10101.9	10042.7	9543.2
17.5°	8018.4	8044.7	8119.2	8312.0	8640.6	9070.0	9565.1	9701.0	9935.4	9920.0	9332.9
20°	7674.4	7707.3	7753.3	7871.6	8213.4	8666.9	9265.0	9440.3	9757.9	9810.5	9124.8
22.5°	7529.9	7554.0	7547.4	7610.9	7843.1	8298.8	8960.5	9168.6	9600.2	9736.0	8932.0
25°	7538.6	7560.5	7527.7	7512.3	7650.3	7974.6	8642.8	8907.9	9473.1	9685.6	8756.7
27.5°	7685.4	7700.7	7639.4	7578.1	7589.0	7773.0	8379.9	8673.5	9365.8	9707.5	8609.9
30°	7882.6	7911.1	7871.6	7797.1	7716.1	7724.8	8211.2	8500.4	9315.4	9784.2	8539.8
32.5°	8136.7	8163.0	8145.5	8086.3	7981.2	7865.0	8169.6	8436.9	9319.8	9939.8	8524.5
35°	8404.0	8456.6	8485.1	8480.7	8395.2	8193.7	8333.9	8555.2	9424.9	10200.5	8614.3
37.5°	8706.3	8750.1	8872.8	8951.7	8872.8	8638.4	8704.1	8857.5	9657.1	10577.3	8811.5
40°	8999.9	9065.6	9245.3	9490.6	9460.0	9254.0	9269.4	9370.1	10066.8	11138.1	9197.1
42.5°	9306.6	9385.5	9698.8	10062.4	10134.7	9974.8	10016.4	10106.3	10649.6	11915.9	9858.7
45°	9701.0	9795.2	10180.7	10634.2	10919.1	10820.5	10938.8	10982.6	11429.5	12928.0	10730.6
47.5°	10209.2	10318.8	10794.2	11359.4	11762.5	11852.3	12058.3	12032.0	12395.7	14126.4	11861.1
50°	11065.8	11127.2	11576.3	12152.5	12706.8	13112.1	13335.5	13377.2	13594.0	15291.9	13125.2
52.5°	12084.6	12139.3	12463.6	12967.5	13662.0	14520.8	15072.9	14937.0	14989.6	16711.6	14604.0
55°	13230.4	13322.4	13528.3	13863.5	14763.9	16028.1	17136.6	17169.5	16586.7	18069.9	16021.5
57.5°	14117.7	14273.2	14625.9	15103.5	16244.9	17704.0	19193.8	19215.7	18470.8	19520.2	17585.7
60°	13670.7	13854.8	14661.0	15824.3	18188.2	20628.8	21651.9	21527.0	20304.5	21172.1	19493.9
62.5°	11742.8	11775.7	12947.8	14766.1	18786.3	24541.6	25310.6	24782.6	22751.7	23266.5	21432.8
65°	7600.0	7814.7	8743.6	11291.5	16821.1	26712.7	31720.9	30500.6	26182.5	25643.6	23056.2
67.5°	4797.9	4743.1	5128.7	6447.6	11569.7	24800.1	37191.4	36998.6	30669.3	27144.3	22668.4
69°	3978.5	4039.9	4171.3	4942.5	7961.4	21174.3	37837.7	39169.7	32844.8	27026.0	21259.7
70°	3608.3	3636.8	3774.8	4381.6	6143.1	17734.7	36777.3	39110.5	33699.2	26530.9	20238.8
72.5°	2863.4	2861.2	3097.8	3645.5	4592.0	10123.8	30198.3	33955.5	32744.0	24226.1	16722.5
75°	2175.5	2210.5	2471.2	3084.7	4230.5	5531.8	21073.5	26149.6	26151.8	19134.6	10434.9
77.5°	1568.6	1590.5	1895.1	2589.6	3985.1	4484.6	14036.6	18755.6	17631.7	8767.7	3279.7
80°	1027.5	1040.6	1272.9	2050.6	3592.9	4230.5	8322.9	11479.9	8316.4	2326.7	1084.5
82.5°	563.0	628.8	777.7	1327.6	2883.1	3908.4	5058.6	5810.1	3119.7	1036.3	565.2
85°	282.6	300.1	438.2	775.6	1884.1	3233.7	3522.8	3332.2	1610.3	514.8	293.6
87.5°	83.3	105.2	181.8	300.1	764.6	1684.7	1960.8	1759.2	620.0	186.2	61.3
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°	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5	10855.5
2.5°	10765.7	10726.3	10551.0	10393.3	10248.7	10095.3	9966.0	9852.1	9863.1	9865.3	9749.2
5°	10520.3	10430.5	10097.5	9786.4	9523.5	9190.5	8905.7	8721.7	8629.6	8507.0	8550.8
7.5°	10187.3	10014.2	9552.0	9034.9	8550.8	8119.2	7650.3	7328.3	7122.4	6923.0	6949.3
10°	9843.4	9565.1	8892.5	8209.0	7582.4	6892.3	6294.2	5781.6	5400.4	5258.0	5163.8
12.5°	9490.6	9124.8	8270.4	7361.2	6495.8	5669.8	4822.0	4272.1	3851.5	3628.0	3656.5
15°	9168.6	8723.9	7621.9	6513.3	5389.4	4405.7	3560.1	3036.5	2742.9	2681.6	2716.6
17.5°	8870.6	8287.9	7015.0	5689.6	4377.3	3303.8	2675.0	2379.2	2260.9	2228.1	2225.9
20°	8563.9	7917.6	6333.7	4808.9	3411.1	2561.1	2195.2	2057.2	2035.3	2048.4	2050.6
22.5°	8252.8	7459.7	5632.6	3934.7	2716.6	2094.4	1919.2	1881.9	1899.4	1930.1	1934.5
25°	7965.8	7056.6	4957.8	3167.9	2168.9	1840.3	1754.8	1754.8	1794.3	1840.3	1842.5
27.5°	7729.2	6666.7	4285.2	2515.1	1816.2	1656.3	1627.8	1643.1	1697.9	1732.9	1735.1
30°	7534.2	6303.0	3649.9	2015.6	1597.1	1509.5	1502.9	1529.2	1568.6	1601.5	1603.7
32.5°	7387.5	5983.1	3056.2	1693.5	1445.9	1397.7	1395.6	1415.3	1437.2	1445.9	1454.7
35°	7330.5	5718.0	2512.9	1489.8	1345.2	1314.5	1314.5	1312.3	1321.1	1325.4	1329.8
37.5°	7376.5	5514.3	2092.2	1358.3	1270.7	1248.8	1235.6	1222.5	1218.1	1218.1	1220.3
40°	7571.5	5406.9	1778.9	1272.9	1218.1	1185.2	1161.1	1145.8	1130.5	1134.8	1139.2
42.5°	7985.5	5426.7	1566.4	1215.9	1172.1	1126.1	1091.0	1073.5	1062.5	1075.7	1073.5
45°	8645.0	5623.8	1430.6	1176.5	1126.1	1066.9	1034.1	1016.5	1016.5	1036.3	1042.8
47.5°	9567.3	6000.7	1358.3	1145.8	1091.0	1020.9	988.1	974.9	979.3	1012.2	1014.4
50°	10693.4	6655.7	1345.2	1130.5	1073.5	988.1	950.8	937.7	948.6	983.7	988.1
52.5°	11935.6	7499.2	1408.7	1132.7	1058.2	968.3	920.1	900.4	911.4	939.9	948.6
55°	13407.8	8555.2	1573.0	1141.4	1036.3	957.4	898.2	854.4	867.6	887.3	889.5
57.5°	14910.7	9887.2	1862.2	1143.6	1018.7	937.7	861.0	804.0	804.0	817.2	823.7
60°	16746.6	11337.5	2243.4	1145.8	1020.9	909.2	810.6	747.1	738.3	744.9	747.1
62.5°	18569.4	12551.2	2306.9	1139.2	1042.8	880.7	755.8	690.1	674.8	672.6	668.2
65°	19373.4	12325.6	1890.7	1108.6	1066.9	863.2	712.0	635.3	609.0	600.3	600.3
67.5°	18063.3	10426.1	1421.8	1066.9	1051.6	845.7	670.4	589.3	558.7	541.1	541.1
69°	16832.1	9273.7	1277.2	1038.4	1012.2	817.2	644.1	565.2	528.0	508.3	501.7
70°	15881.3	8480.7	1215.9	1014.4	974.9	784.3	624.4	547.7	506.1	484.2	479.8
72.5°	12673.9	6653.5	1064.7	922.3	830.3	659.4	554.3	492.9	453.5	429.4	422.8
75°	7304.2	3606.1	882.9	801.8	668.2	512.7	468.8	429.4	398.7	376.8	370.2
77.5°	2247.8	1393.4	639.7	633.1	490.7	396.5	374.6	359.3	337.4	313.3	308.9
80°	946.4	709.8	433.8	427.2	326.4	276.0	269.5	267.3	258.5	238.8	232.2
82.5°	519.2	400.9	302.3	262.9	197.2	159.9	166.5	168.7	162.1	142.4	129.3
85°	254.1	219.1	146.8	118.3	89.8	57.0	54.8	65.7	61.3	43.8	48.2
87.5°	50.4	61.3	39.4	17.5	8.8	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)