

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: P532713

Luminaire Tested: **GALN-SA8A-750-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-750-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24423 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

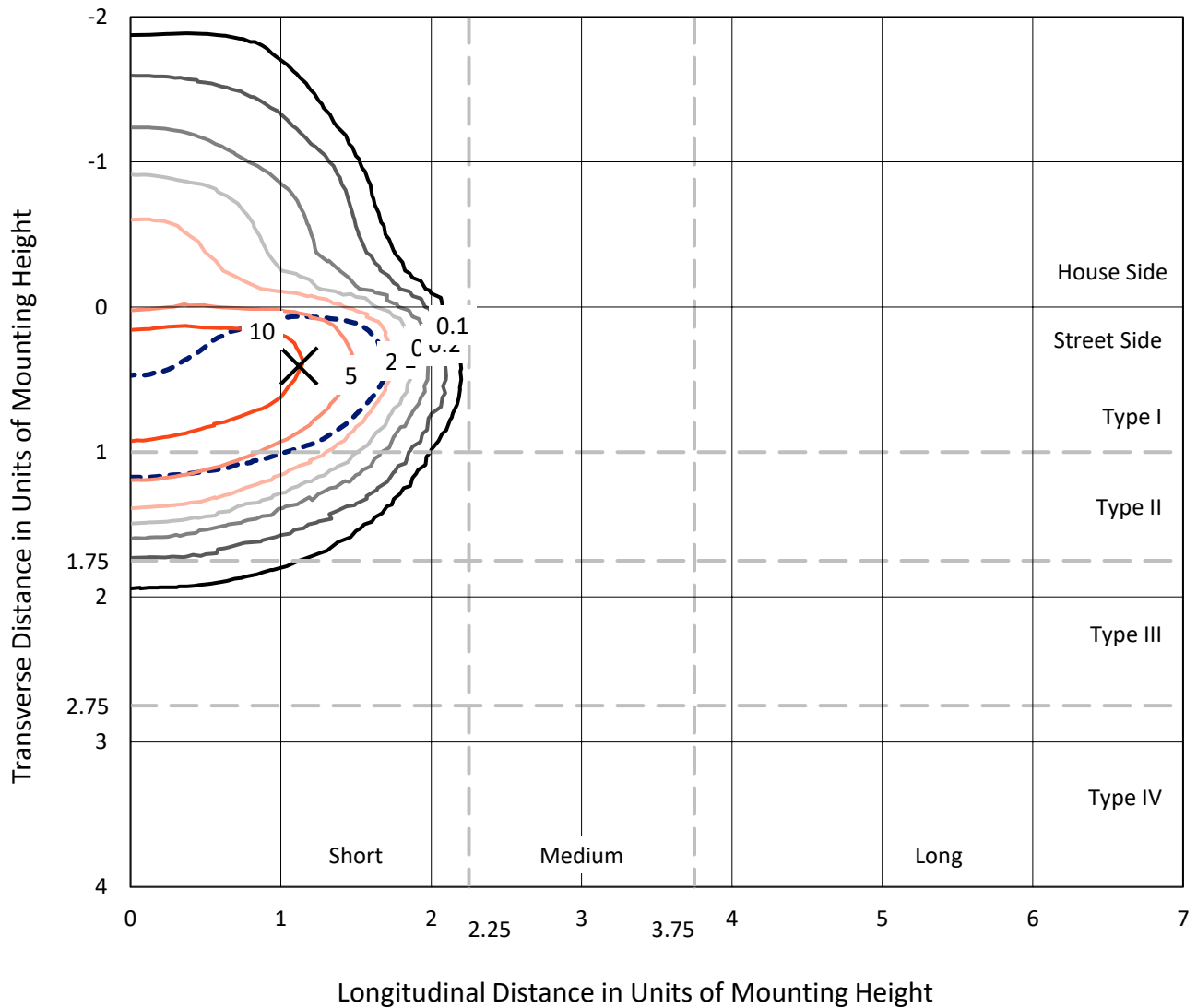
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

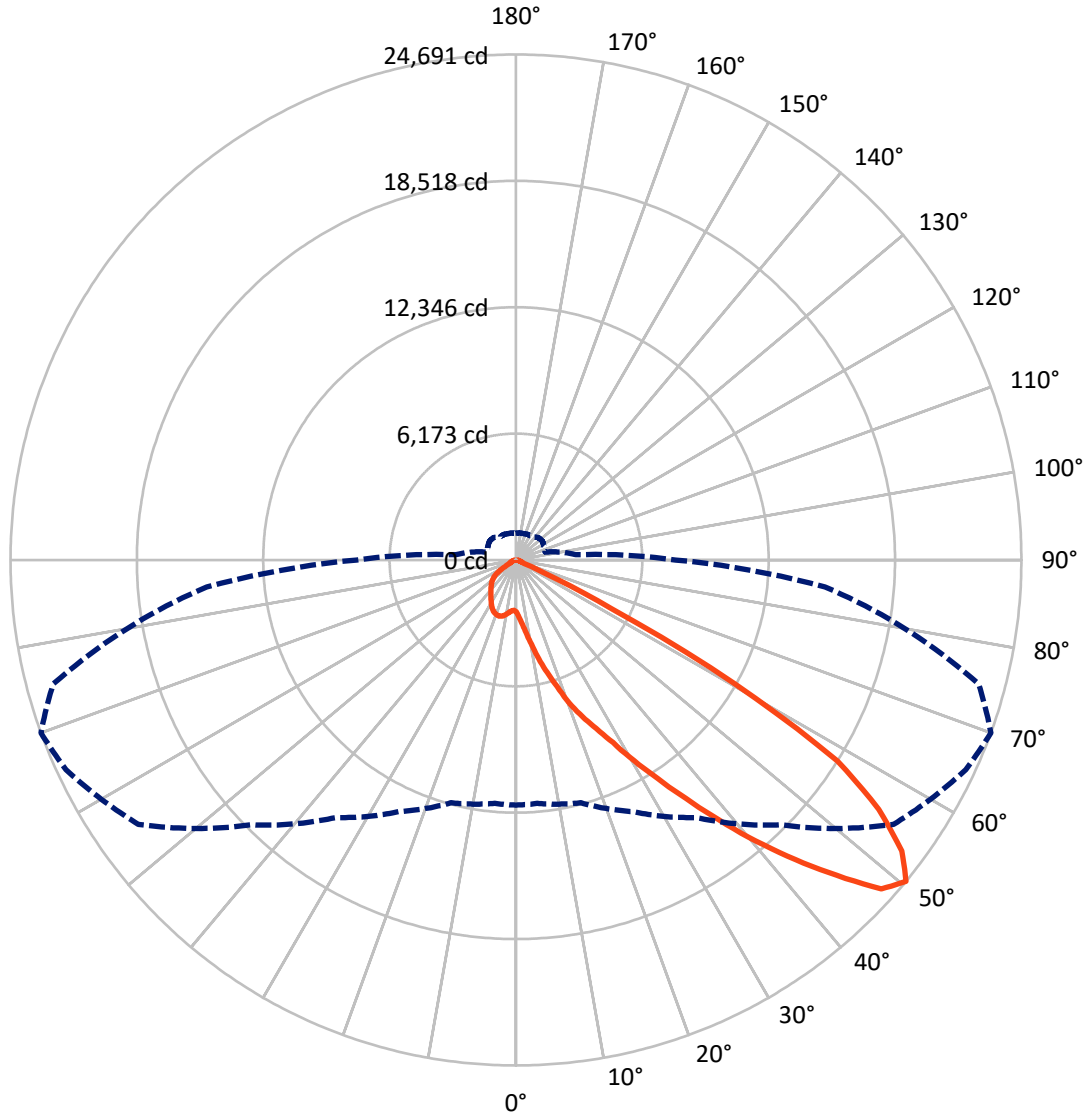
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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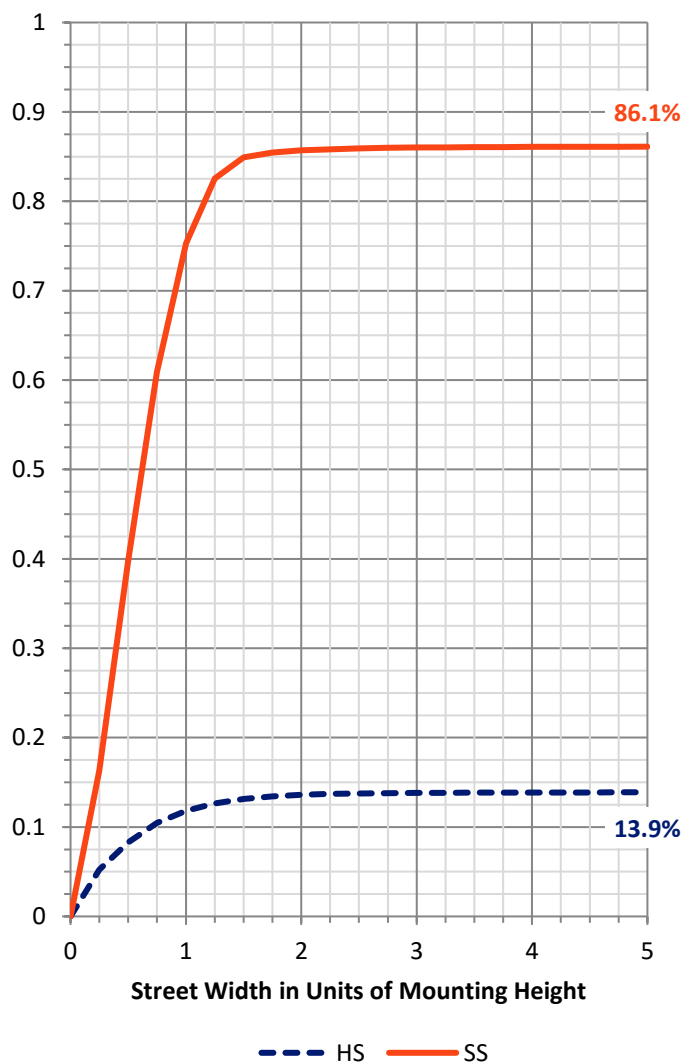
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3410.8	0.0	3410.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21012.2	0.0	21012.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	24423.0	0.0	24423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	1.3
10°-20°	1423.0	5.8
20°-30°	2985.1	12.2
30°-40°	5145.4	21.1
40°-50°	7519.9	30.8
50°-60°	5856.8	24.0
60°-70°	992.3	4.1
70°-80°	136.3	0.6
80°-90°	35.3	0.1
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°	24423.0	100.0
0°-180°	24423.0	100.0

Coefficient of Utilization



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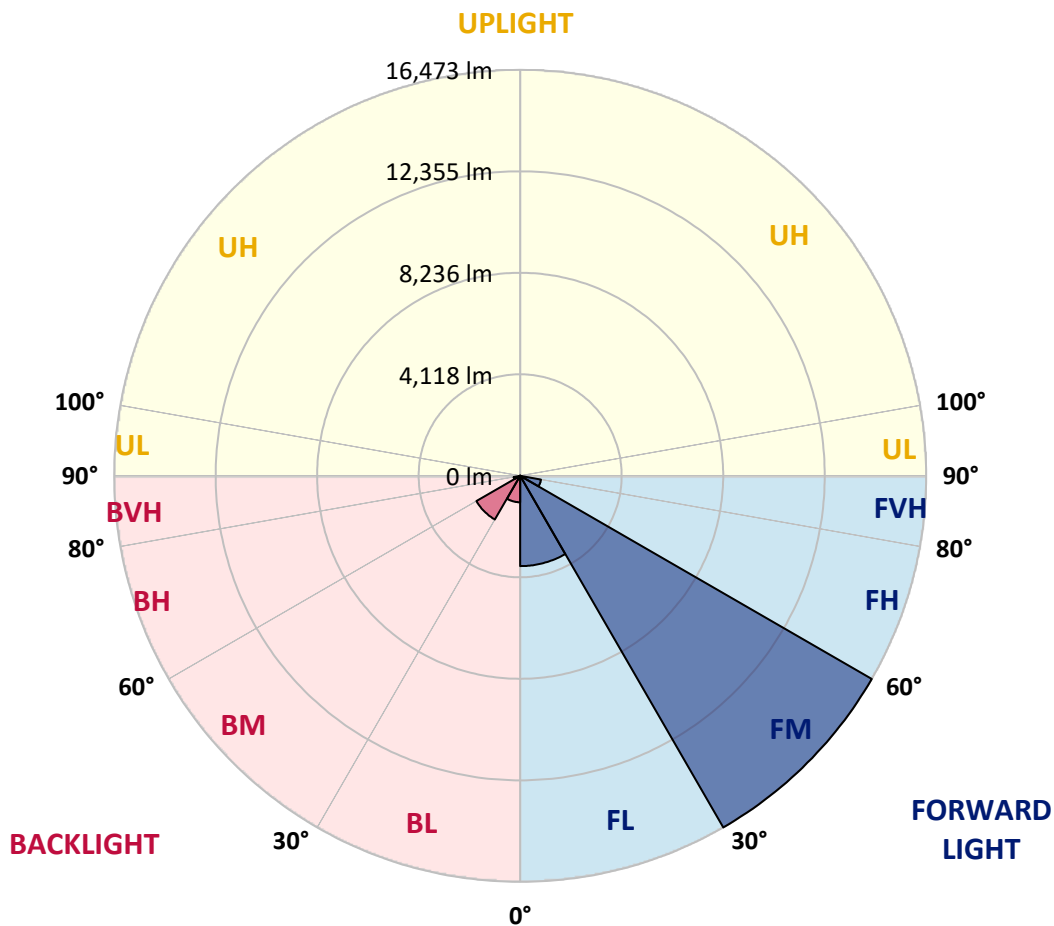
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3663.7	15.0			
FM (30°-60°)	16472.9	67.4			
FH (60°-80°)	859.2	3.5			G1/1800
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	1073.3	4.4	B3/2500		
BM (30°-60°)	2049.1	8.4	B2/2500		
BH (60°-80°)	269.4	1.1	B1/500		G1/500
BVH (80°-90°)	19.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7
2.5°	3312.8	3288.7	3236.5	3140.1	3099.9	3003.6	2947.4	2838.9	2770.7	2694.4	2610.1
5°	4666.0	4541.5	4465.2	4356.8	4039.6	3842.8	3517.5	3240.5	3112.0	2971.4	2778.7
7.5°	6063.3	5983.0	5878.6	5645.7	5428.9	5019.3	4461.2	3850.8	3589.8	3348.9	2967.4
10°	7219.8	6994.9	6982.9	6810.2	6573.3	6083.4	5412.8	4653.9	4188.1	3834.8	3236.5
12.5°	8026.9	7822.1	7914.5	7894.4	7673.6	7223.8	6448.8	5445.0	4959.1	4409.0	3513.5
15°	8761.7	8677.4	8649.3	8625.2	8536.9	8203.6	7508.9	6408.7	5706.0	5043.4	3826.7
17.5°	9480.5	9263.7	9368.1	9388.2	9380.1	9079.0	8428.5	7324.2	6497.0	5714.0	4156.0
20°	10119.0	10139.0	9998.5	9970.4	9946.3	9934.3	9299.8	8231.7	7468.8	6416.7	4585.7
22.5°	10938.1	10797.6	10922.1	10841.8	10685.1	10588.8	10102.9	9034.8	8312.0	7264.0	5023.3
25°	11905.8	12018.3	11725.2	11693.0	11520.4	11187.1	10749.4	9934.3	9123.1	8051.0	5497.2
27.5°	13098.4	12901.7	12825.4	12648.7	12335.5	12195.0	11681.0	10861.8	10102.9	8878.2	5954.9
30°	14122.4	14070.2	13688.7	13479.9	13206.9	13202.8	12484.1	12118.7	11379.8	10175.2	6585.4
32.5°	14957.6	14728.7	14588.2	14443.6	14222.8	14283.0	13676.7	13483.9	12741.1	11379.8	7328.2
35°	15515.8	15351.1	15266.8	15045.9	14981.7	15250.7	14997.8	14917.4	14307.1	13074.3	8199.6
37.5°	15692.4	15744.6	15728.6	15451.5	15588.0	16314.8	16640.1	16431.3	16110.0	14861.2	9143.2
40°	15849.0	15885.2	15804.9	16130.1	16519.6	17346.8	18523.3	18178.0	18057.5	16672.2	10456.3
42.5°	15937.4	15909.3	15909.3	16471.4	17061.7	18724.1	20342.3	20113.5	20021.1	18599.6	11974.1
45°	15555.9	15282.9	15576.0	16338.9	17527.5	19402.7	21795.9	22113.2	21980.6	20892.5	13748.9
47.5°	14130.4	14299.1	14463.7	15483.6	16961.3	19193.9	22687.4	23767.5	24012.5	22819.9	14913.4
50°	11974.1	11938.0	12279.3	13564.2	15359.1	18294.5	22514.7	24245.4	24691.1	23398.1	15158.4
52.5°	8709.5	8974.6	9344.0	10620.9	12749.1	15965.5	20286.1	23012.6	23606.9	22687.4	14997.8
55°	5071.5	4778.4	5609.6	6689.8	8697.5	12042.4	17150.0	20398.6	21498.8	21394.4	14186.6
57.5°	2031.8	1967.6	2252.7	3035.7	4537.5	7464.7	12472.0	16760.5	18523.3	19595.5	12468.0
60°	891.4	871.4	1023.9	1236.8	1855.1	3441.3	6822.3	10424.1	12263.2	13692.7	8581.0
62.5°	642.5	634.4	710.7	787.0	979.8	1497.8	2867.0	4200.2	5236.2	6324.4	3842.8
65°	518.0	538.1	590.3	630.4	722.8	831.2	1011.9	1168.5	1433.5	1485.7	847.3
67.5°	421.6	437.7	485.9	530.0	546.1	449.7	465.8	409.6	409.6	365.4	293.1
70°	309.2	313.2	369.4	421.6	337.3	180.7	317.2	317.2	285.1	273.1	249.0
72.5°	228.9	232.9	277.1	261.0	132.5	112.4	232.9	257.0	232.9	220.9	200.8
75°	168.6	172.7	144.6	60.2	56.2	72.3	136.5	176.7	168.6	164.6	152.6
77.5°	32.1	24.1	20.1	28.1	40.2	60.2	88.3	108.4	112.4	120.5	112.4
80°	4.0	4.0	12.0	24.1	44.2	64.2	92.4	104.4	108.4	112.4	104.4
82.5°	0.0	4.0	12.0	24.1	44.2	60.2	80.3	92.4	100.4	104.4	100.4
85°	0.0	4.0	8.0	20.1	36.1	44.2	40.2	28.1	24.1	28.1	20.1
87.5°	0.0	0.0	4.0	4.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
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°	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7	2529.7
2.5°	2561.9	2545.8	2489.6	2429.4	2377.2	2401.2	2377.2	2357.1	2365.1	2357.1	2349.0
5°	2702.4	2630.1	2509.7	2457.5	2413.3	2409.3	2397.2	2393.2	2397.2	2397.2	2361.1
7.5°	2834.9	2718.5	2590.0	2533.8	2481.6	2485.6	2457.5	2457.5	2453.4	2433.4	2425.3
10°	3035.7	2879.1	2714.5	2614.1	2549.8	2537.8	2509.7	2481.6	2481.6	2481.6	2441.4
12.5°	3256.5	3059.8	2834.9	2718.5	2642.2	2581.9	2537.8	2529.7	2485.6	2477.5	2457.5
15°	3449.3	3200.3	2915.2	2754.6	2658.2	2577.9	2509.7	2465.5	2445.4	2433.4	2417.3
17.5°	3638.0	3320.8	2959.4	2754.6	2650.2	2557.9	2485.6	2445.4	2397.2	2405.3	2373.1
20°	3891.0	3449.3	2971.4	2702.4	2573.9	2485.6	2389.2	2369.1	2341.0	2316.9	2325.0
22.5°	4135.9	3541.6	2935.3	2638.2	2453.4	2349.0	2300.9	2276.8	2264.7	2244.6	2216.5
25°	4356.8	3642.0	2879.1	2521.7	2325.0	2248.7	2204.5	2200.5	2172.4	2172.4	2120.2
27.5°	4581.6	3678.2	2782.7	2385.2	2212.5	2168.4	2148.3	2140.2	2128.2	2100.1	2063.9
30°	4838.6	3690.2	2642.2	2244.6	2112.1	2063.9	2092.1	2112.1	2059.9	2007.7	2023.8
32.5°	5051.5	3662.1	2473.5	2112.1	2039.9	2015.8	2072.0	2092.1	2031.8	1975.6	1947.5
35°	5308.4	3593.8	2308.9	2007.7	1967.6	2015.8	2063.9	2063.9	1943.5	1875.2	1859.2
37.5°	5697.9	3517.5	2156.3	1919.4	1891.3	1991.7	2055.9	2011.7	1823.0	1738.7	1718.6
40°	6115.6	3469.4	2007.7	1831.1	1851.1	1951.5	1987.7	1851.1	1658.4	1606.2	1590.1
42.5°	6721.9	3373.0	1875.2	1754.8	1815.0	1895.3	1895.3	1650.4	1578.1	1550.0	1546.0
45°	7476.8	3304.7	1758.8	1690.5	1762.8	1782.9	1718.6	1546.0	1493.8	1485.7	1489.7
47.5°	7846.2	3172.2	1638.3	1614.2	1666.4	1670.4	1501.8	1461.6	1417.5	1405.4	1397.4
50°	7790.0	2935.3	1481.7	1513.8	1586.1	1546.0	1369.3	1377.3	1337.1	1333.1	1313.1
52.5°	7396.5	2561.9	1325.1	1401.4	1481.7	1365.3	1260.9	1252.8	1252.8	1200.6	1180.5
55°	6557.3	2063.9	1136.4	1232.7	1329.1	1148.4	1120.3	1112.3	1092.2	1044.0	1032.0
57.5°	5192.0	1513.8	855.3	959.7	1128.3	975.8	971.7	935.6	883.4	847.3	847.3
60°	3087.9	871.4	538.1	586.3	746.9	791.0	879.4	863.3	775.0	718.8	702.7
62.5°	1409.4	449.7	341.3	349.3	401.5	514.0	690.7	799.1	674.6	578.2	570.2
65°	473.8	333.3	281.1	269.0	277.1	309.2	413.6	566.2	538.1	445.7	429.7
67.5°	289.1	297.1	265.0	244.9	244.9	240.9	236.9	257.0	317.2	309.2	313.2
70°	249.0	273.1	244.9	220.9	212.8	200.8	168.6	140.5	120.5	140.5	148.6
72.5°	200.8	216.8	208.8	188.7	168.6	152.6	120.5	92.4	68.3	60.2	60.2
75°	148.6	160.6	168.6	144.6	128.5	108.4	88.3	60.2	36.1	24.1	24.1
77.5°	108.4	120.5	124.5	112.4	96.4	76.3	56.2	40.2	20.1	8.0	8.0
80°	92.4	108.4	120.5	112.4	100.4	72.3	52.2	28.1	16.1	4.0	4.0
82.5°	88.3	108.4	120.5	108.4	96.4	68.3	52.2	32.1	12.0	4.0	4.0
85°	20.1	28.1	36.1	44.2	52.2	52.2	40.2	24.1	12.0	4.0	4.0
87.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	4.0	4.0	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)