

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: P530573

Luminaire Tested: **GALN-SA5D-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22655 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

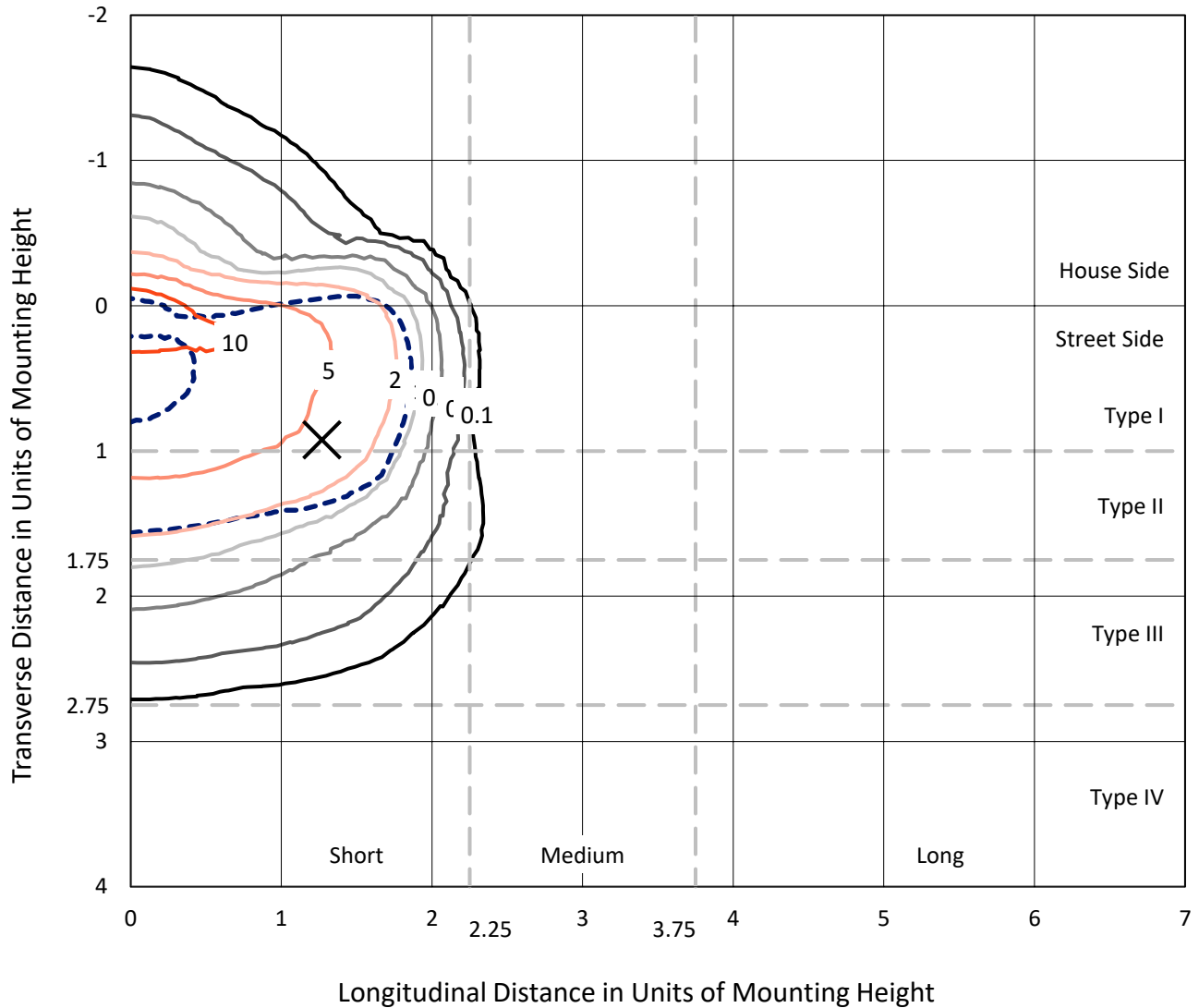
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

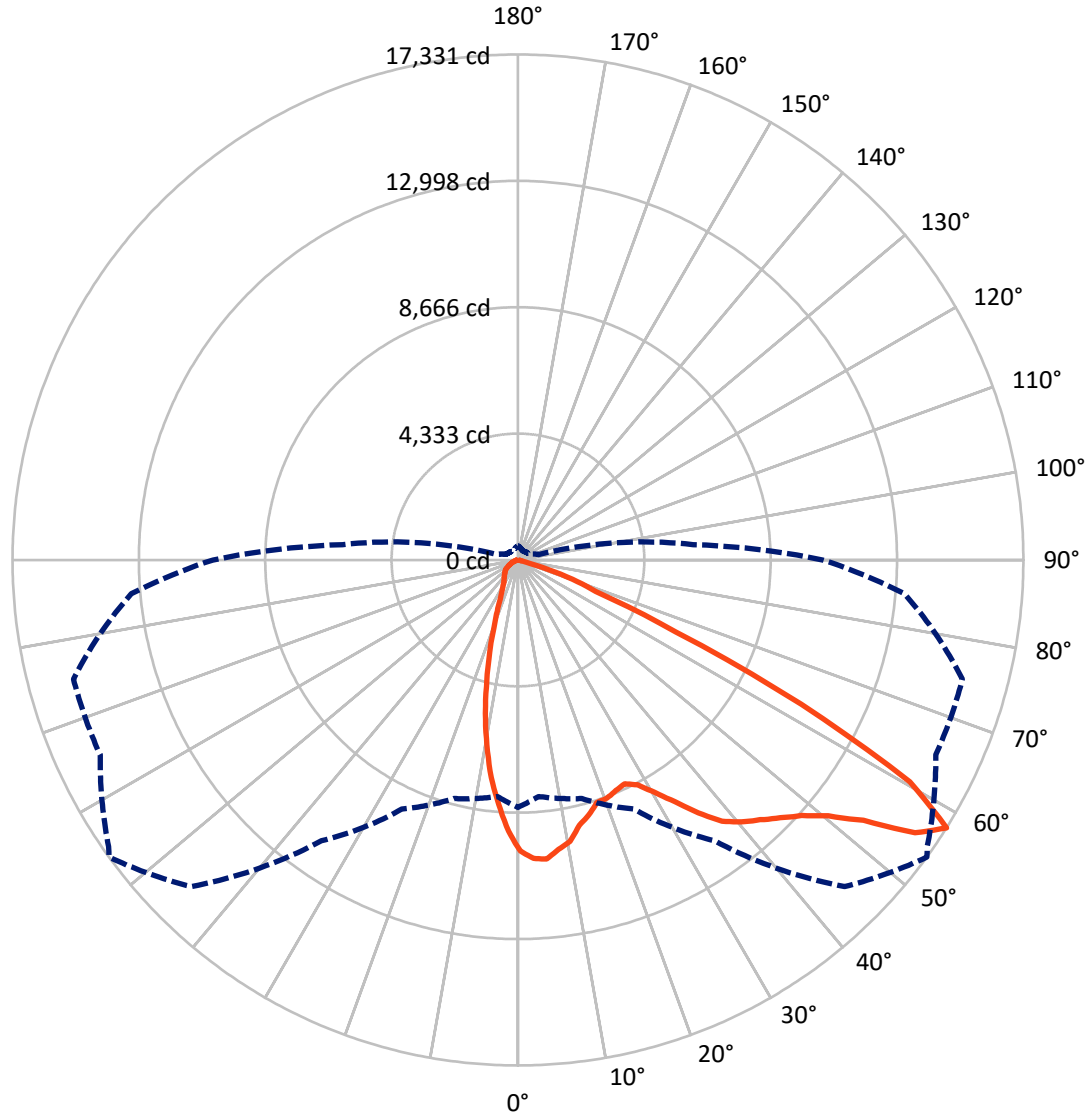
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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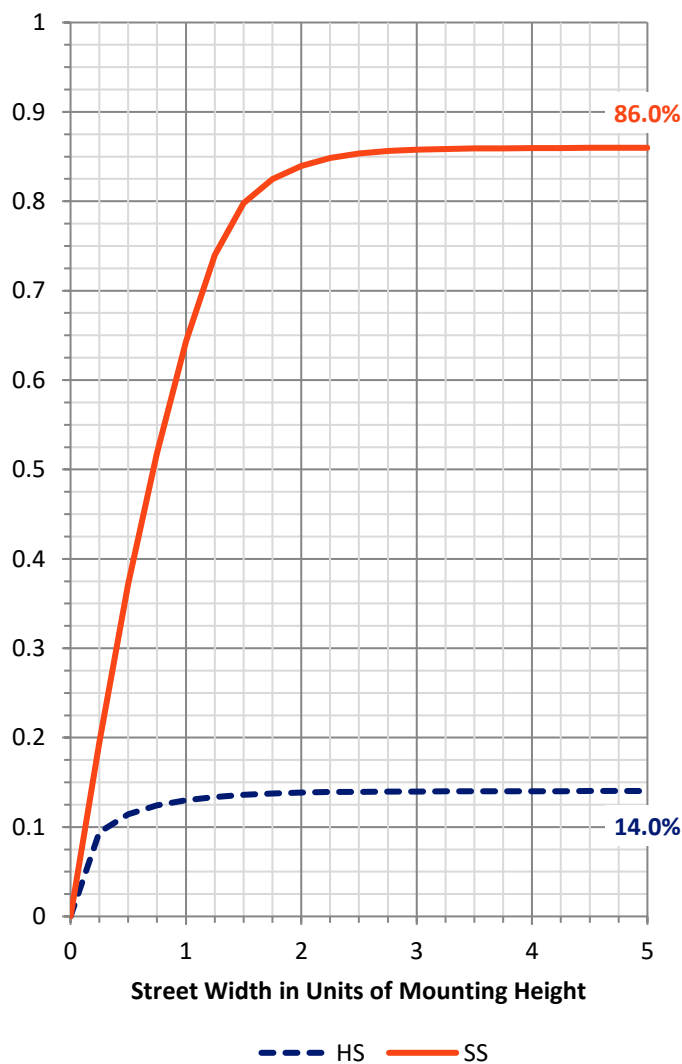
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3201.5	0.0	3201.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19453.5	0.0	19453.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	22655.0	0.0	22655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.1	3.7
10°-20°	1783.0	7.9
20°-30°	2362.8	10.4
30°-40°	3433.8	15.2
40°-50°	5091.9	22.5
50°-60°	6367.2	28.1
60°-70°	2511.6	11.1
70°-80°	250.1	1.1
80°-90°	19.4	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°	22655.0	100.0
0°-180°	22655.0	100.0

Coefficient of Utilization

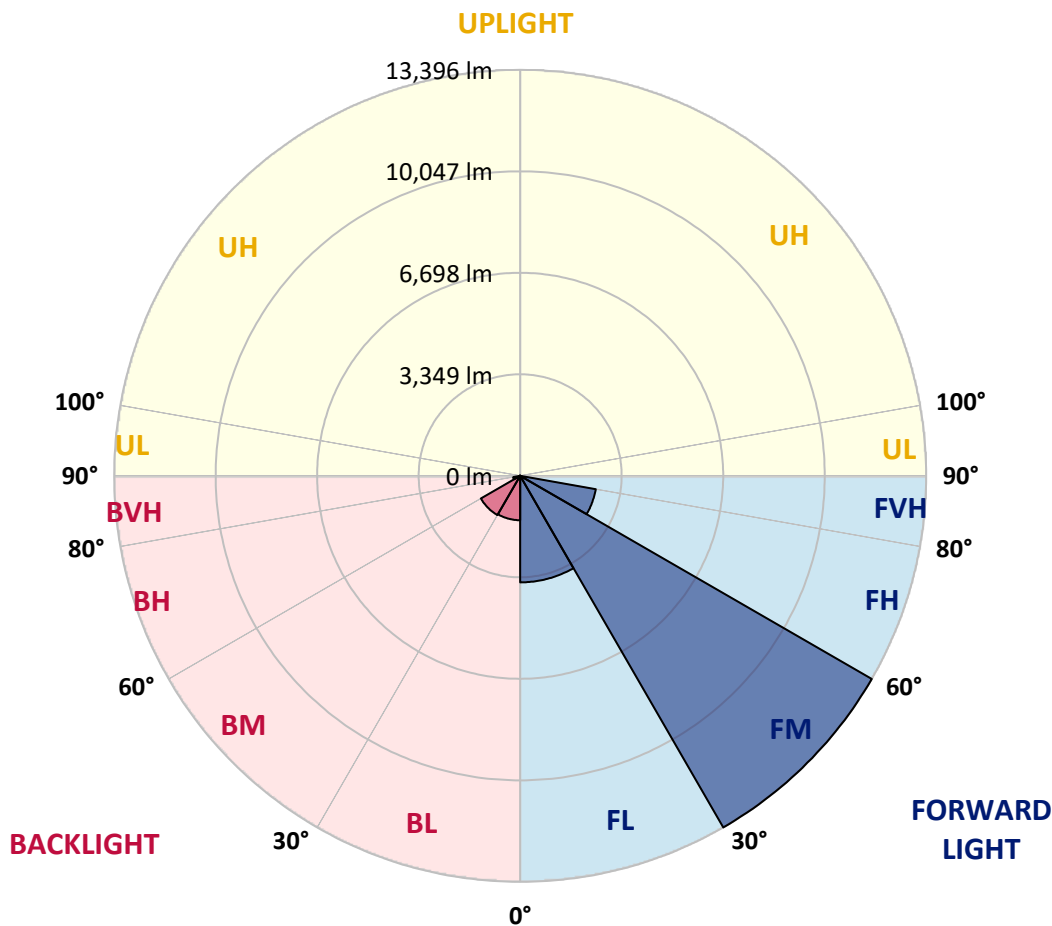


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3516.7	15.5			
FM (30°-60°)	13395.9	59.1			
FH (60°-80°)	2532.1	11.2			G2/5000
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	1464.2	6.5	B3/2500		
BM (30°-60°)	1497.1	6.6	B2/2500		
BH (60°-80°)	229.6	1.0	B1/500		G1/500
BVH (80°-90°)	10.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8
2.5°	10561.2	10451.7	10460.1	10422.2	10371.6	10409.5	10245.2	10283.1	10278.9	10055.7	9908.2
5°	10295.8	10413.7	10291.6	10392.7	10295.8	10401.1	10300.0	10224.2	10102.0	9937.7	9663.9
7.5°	9845.0	9731.3	9765.0	9891.4	9912.4	10148.3	10022.0	10118.9	10068.3	9743.9	9369.0
10°	8939.3	8914.0	9082.5	9251.0	9457.5	9710.2	9807.1	9752.3	9714.4	9592.3	9091.0
12.5°	8244.2	8315.8	8311.6	8589.6	8939.3	9082.5	9335.3	9326.9	9537.5	9310.0	8829.8
15°	7582.8	7620.7	7797.7	7970.4	8358.0	8766.6	9078.3	9120.4	9373.2	9213.1	8627.6
17.5°	7178.4	7123.6	7262.7	7469.1	7865.1	8400.1	8745.5	8846.6	9192.1	9158.4	8395.9
20°	6778.2	6778.2	6891.9	7136.3	7498.6	8101.0	8716.0	8686.5	9192.1	9095.2	8147.3
22.5°	6643.4	6710.8	6740.3	6925.6	7355.3	7873.5	8589.6	8644.4	9263.7	9065.7	8037.8
25°	6828.7	6740.3	6748.7	6896.2	7300.6	7764.0	8497.0	8619.1	9394.3	9213.1	7949.3
27.5°	6858.2	6946.7	6972.0	7073.1	7342.7	7797.7	8728.7	8977.2	9718.6	9558.6	7974.6
30°	7115.2	7203.7	7199.5	7372.2	7557.5	8071.5	9246.8	9297.4	10388.5	9992.5	8130.5
32.5°	7427.0	7519.6	7549.1	7751.3	7898.8	8572.8	9878.7	10009.3	11033.0	10674.9	8539.1
35°	7814.5	7780.8	7915.6	8117.8	8433.8	9305.8	10649.6	10868.7	11728.1	11559.6	8960.4
37.5°	8299.0	8256.8	8387.4	8716.0	9145.7	10173.6	11361.6	11504.8	12233.6	12381.1	9739.7
40°	8640.2	8657.1	9053.0	9495.4	9950.3	10999.3	11812.3	11951.4	12587.5	13147.8	10329.5
42.5°	9208.9	9314.2	9790.3	10329.5	10805.5	11618.6	12178.9	12313.7	12751.8	13762.8	11125.7
45°	10034.6	9988.3	10514.8	11117.3	11643.8	12263.1	12612.8	12566.4	12848.7	14373.7	11627.0
47.5°	11096.2	11104.6	11454.3	11968.2	12515.9	12823.4	13097.2	12932.9	13050.9	15018.2	12296.8
50°	11820.8	11884.0	12166.2	12692.8	12966.6	13438.4	13788.1	13687.0	13649.1	15405.8	12718.1
52.5°	12006.1	12195.7	12347.4	13004.5	13644.9	14390.5	14837.0	15051.9	14377.9	15536.4	13253.1
55°	10607.5	10776.0	11311.0	12212.6	13901.8	15898.6	16513.7	16517.9	15329.9	16117.7	13628.0
57.5°	8480.1	8138.9	8467.5	9423.8	11753.4	15835.5	17331.0	17133.0	15806.0	15776.5	13303.6
60°	5864.0	5779.8	5800.9	6180.0	8134.7	12595.9	15443.7	15700.6	14554.8	13674.4	10531.7
62.5°	4646.6	4575.0	4482.3	4440.2	5051.0	7848.2	10894.0	11256.3	10177.8	8867.7	6243.2
65°	3639.8	3597.6	3610.3	3778.8	3774.6	4452.8	5956.7	5809.3	4650.8	3437.5	1963.1
67.5°	2456.0	2519.2	2569.7	3079.5	3340.7	3100.5	2877.3	2793.0	1512.4	636.1	433.9
70°	1381.8	1390.2	1444.9	1925.2	2536.0	2405.4	1984.2	1984.2	754.1	231.7	248.5
72.5°	754.1	728.8	678.2	829.9	1129.0	1145.8	884.7	770.9	223.3	151.7	139.0
75°	366.5	362.3	311.7	257.0	244.3	202.2	155.9	143.2	101.1	96.9	84.3
77.5°	75.8	71.6	37.9	37.9	42.1	46.3	59.0	59.0	71.6	71.6	59.0
80°	0.0	0.0	4.2	16.9	29.5	42.1	50.6	50.6	59.0	59.0	46.3
82.5°	0.0	0.0	4.2	12.6	25.3	37.9	46.3	50.6	59.0	63.2	50.6
85°	0.0	0.0	0.0	8.4	21.1	29.5	25.3	25.3	21.1	16.9	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8	9979.8
2.5°	9832.4	9824.0	9630.2	9520.7	9322.7	9149.9	9010.9	8909.8	8909.8	8846.6	8787.6
5°	9554.4	9482.7	9069.9	8804.5	8429.6	8151.5	7962.0	7814.5	7582.8	7646.0	7397.5
7.5°	9208.9	9027.8	8480.1	8075.7	7557.5	7161.6	6757.1	6399.1	6053.6	5897.7	5982.0
10°	8838.2	8522.2	7785.0	7144.7	6500.2	5775.6	5303.8	4730.8	4377.0	4355.9	4263.2
12.5°	8446.4	8088.3	7191.0	6306.4	5459.6	4587.6	3867.2	3332.2	3092.1	2826.7	2877.3
15°	8151.5	7620.7	6529.6	5463.8	4339.1	3458.6	2734.0	2321.2	2093.7	2030.5	2009.4
17.5°	7831.4	7262.7	5855.6	4566.5	3403.8	2489.7	1967.3	1769.3	1680.9	1680.9	1668.2
20°	7498.6	6858.2	5185.8	3732.4	2552.9	1857.8	1575.5	1512.4	1508.1	1503.9	1503.9
22.5°	7279.5	6394.8	4579.2	2965.7	1925.2	1487.1	1369.1	1343.8	1360.7	1411.2	1411.2
25°	7047.8	5948.3	3909.4	2287.5	1491.3	1276.4	1209.0	1225.9	1268.0	1314.4	1297.5
27.5°	6811.9	5657.6	3277.5	1794.6	1221.7	1116.4	1091.1	1129.0	1175.3	1217.5	1204.8
30°	6757.1	5345.9	2679.3	1360.7	1049.0	973.1	990.0	1023.7	1070.0	1086.9	1103.7
32.5°	6841.4	5101.6	2194.8	1116.4	914.2	893.1	893.1	909.9	939.4	977.3	964.7
35°	7081.5	4962.5	1735.6	968.9	838.3	817.3	813.0	829.9	846.7	859.4	846.7
37.5°	7448.0	4853.0	1419.7	859.4	787.8	754.1	745.6	741.4	758.3	762.5	770.9
40°	7915.6	4912.0	1204.8	792.0	737.2	699.3	674.0	674.0	674.0	686.7	690.9
42.5°	8421.1	4992.0	1040.5	754.1	690.9	644.5	619.3	610.8	619.3	636.1	631.9
45°	8951.9	5147.9	935.2	695.1	648.8	589.8	556.1	547.6	568.7	602.4	598.2
47.5°	9449.0	5371.2	855.2	657.2	606.6	551.9	509.7	501.3	539.2	585.6	589.8
50°	9946.1	5758.7	825.7	627.7	577.1	513.9	476.0	467.6	509.7	568.7	581.3
52.5°	10519.1	6175.8	804.6	589.8	543.4	484.5	442.3	433.9	480.2	556.1	560.3
55°	10894.0	6529.6	787.8	522.4	480.2	438.1	404.4	400.2	450.8	518.2	535.0
57.5°	10455.9	6036.8	728.8	455.0	408.6	387.6	358.1	358.1	400.2	463.4	476.0
60°	7928.3	3972.6	518.2	366.5	345.4	332.8	320.2	320.2	353.9	400.2	404.4
62.5°	4642.4	2140.0	332.8	294.9	294.9	282.2	261.2	261.2	294.9	320.2	324.4
65°	1377.5	686.7	269.6	252.8	248.5	227.5	206.4	202.2	227.5	240.1	235.9
67.5°	396.0	316.0	223.3	210.6	206.4	172.7	160.1	155.9	160.1	151.7	147.4
70°	235.9	214.8	172.7	176.9	155.9	126.4	113.7	109.5	101.1	88.5	80.0
72.5°	130.6	130.6	126.4	134.8	109.5	84.3	71.6	59.0	46.3	37.9	33.7
75°	80.0	84.3	88.5	92.7	71.6	54.8	46.3	29.5	16.9	8.4	8.4
77.5°	54.8	59.0	63.2	67.4	59.0	50.6	37.9	21.1	4.2	0.0	0.0
80°	42.1	46.3	54.8	59.0	63.2	67.4	50.6	21.1	4.2	0.0	0.0
82.5°	46.3	50.6	63.2	59.0	59.0	59.0	46.3	21.1	4.2	0.0	0.0
85°	8.4	12.6	21.1	21.1	29.5	37.9	29.5	8.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)