

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: P533063

Luminaire Tested: **GALN-SA8C-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35418 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

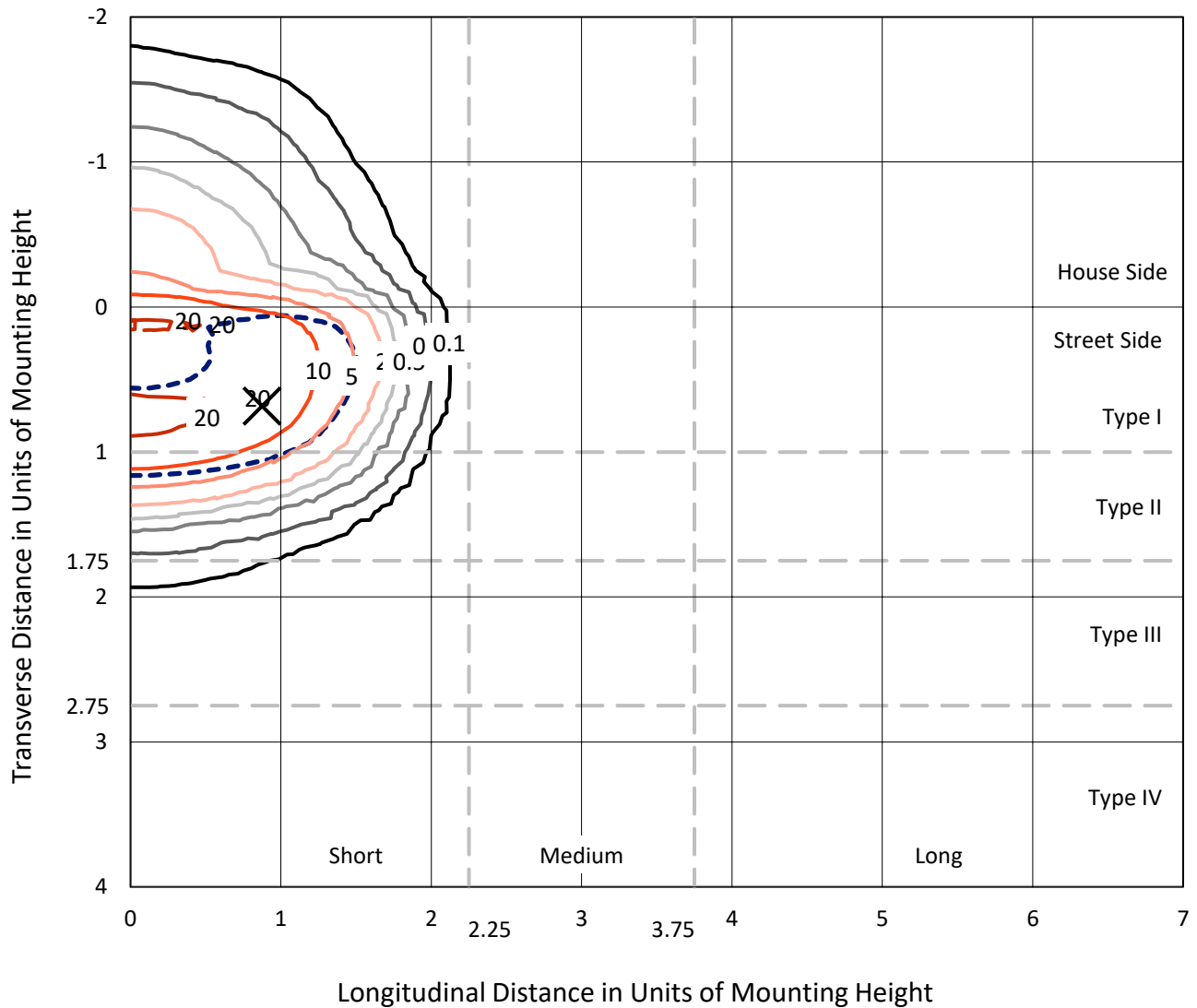
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

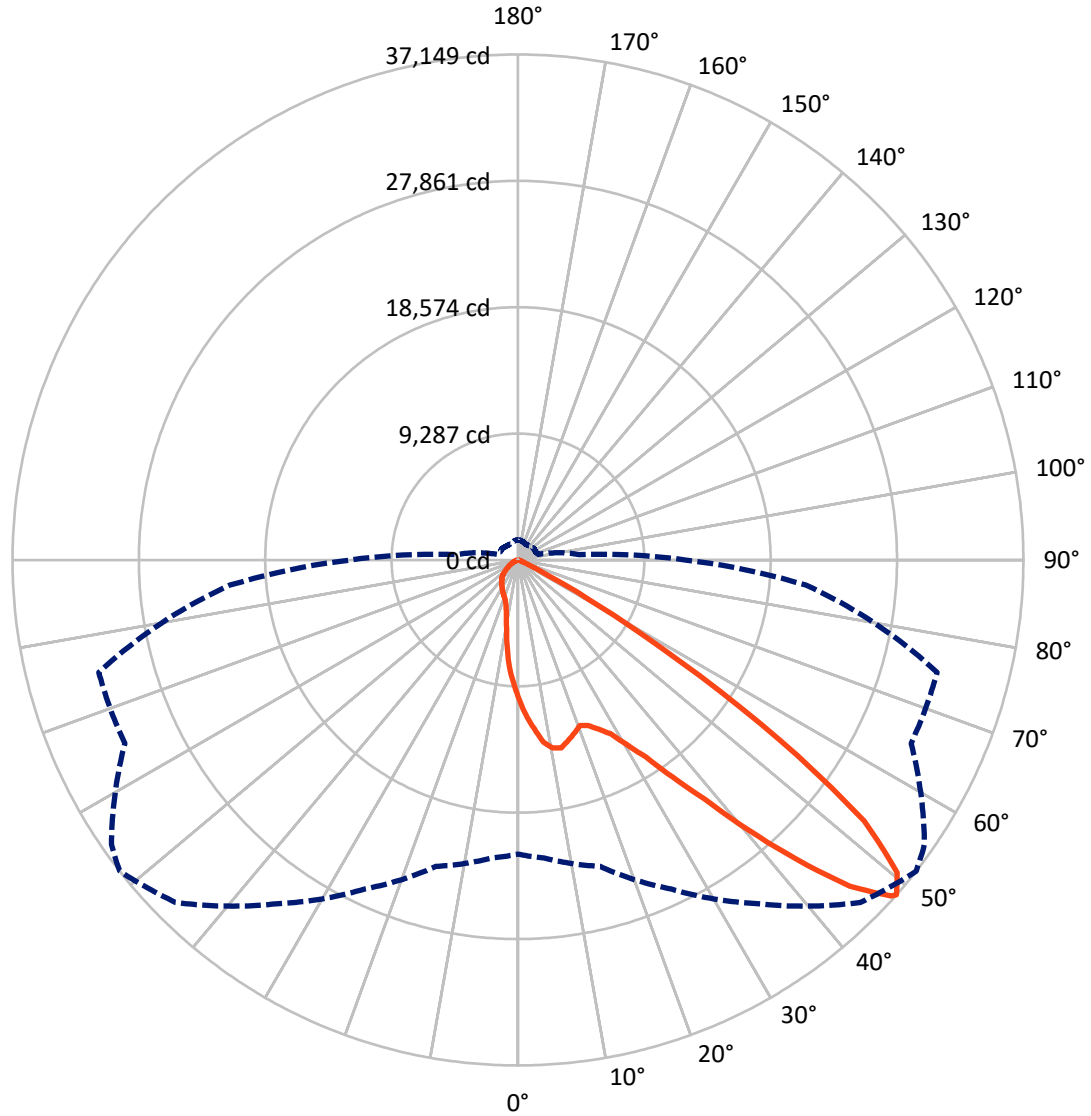
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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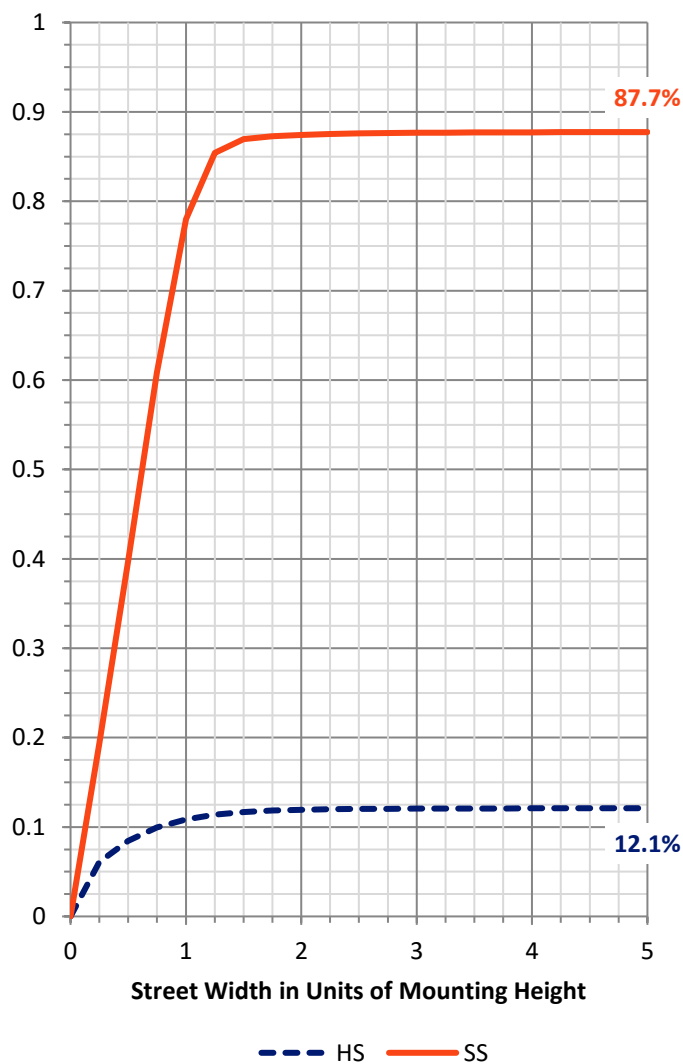
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4312.4	0.0	4312.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	31105.6	0.0	31105.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	35418.0	0.0	35418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.2	2.6
10°-20°	2446.5	6.9
20°-30°	4177.2	11.8
30°-40°	7692.4	21.7
40°-50°	11946.3	33.7
50°-60°	7189.6	20.3
60°-70°	831.6	2.3
70°-80°	161.0	0.5
80°-90°	37.2	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°	35418.0	100.0
0°-180°	35418.0	100.0

Coefficient of Utilization



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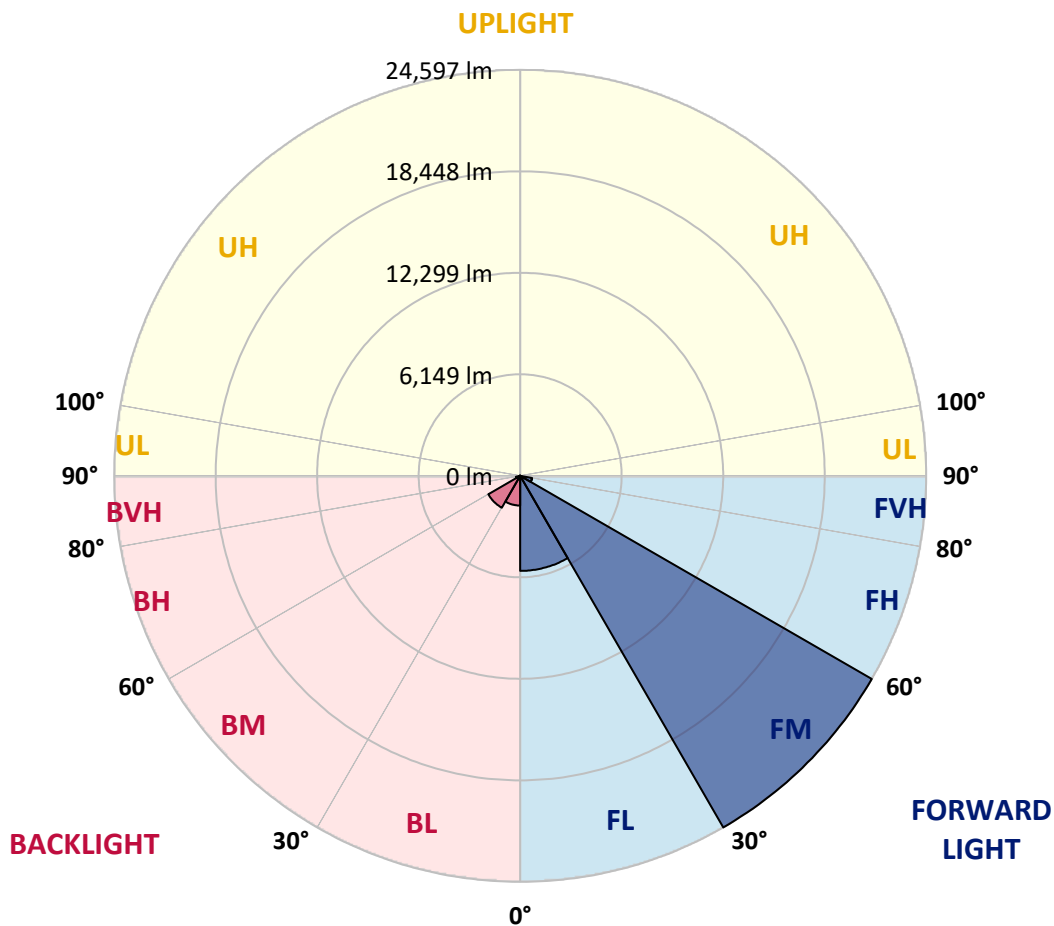
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5758.5	16.3			
FM (30°-60°)	24597.1	69.4			
FH (60°-80°)	732.2	2.1			G1/1800
FVH (80°-90°)	17.7	0.1			G1/100
BL (0°-30°)	1801.4	5.1	B3/2500		
BM (30°-60°)	2231.2	6.3	B2/2500		
BH (60°-80°)	260.3	0.7	B1/500		G1/500
BVH (80°-90°)	19.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1
2.5°	12396.6	12112.7	12138.5	11952.6	11844.2	11668.6	11431.1	11384.7	11126.5	10775.4	10419.2
5°	13511.9	13444.8	13532.5	13264.0	13274.4	12985.2	12427.6	12437.9	11844.2	11271.1	10718.6
7.5°	13584.2	13429.3	13517.0	13754.5	13893.9	13842.3	13527.4	13253.7	12690.9	11849.3	11043.9
10°	12164.3	12458.6	12551.5	12943.9	13501.5	14090.1	14054.0	14069.5	13599.6	12499.9	11322.7
12.5°	11312.4	11116.2	11431.1	11668.6	12510.2	13651.3	14172.7	14286.3	14322.5	13129.8	11601.5
15°	10925.2	10925.2	10976.8	11043.9	11653.1	12706.4	13770.0	14100.5	14880.1	13955.9	12040.4
17.5°	11167.8	11157.5	11229.8	11090.4	11317.5	12128.2	13398.3	13775.2	15504.8	14766.5	12386.3
20°	11906.1	11942.3	11895.8	11493.1	11508.6	12117.8	12985.2	13579.0	15928.2	15468.7	12845.8
22.5°	12933.6	12954.3	12690.9	12252.1	12123.0	12422.5	13222.7	13677.1	16269.0	16310.3	12985.2
25°	14121.1	14038.5	13986.9	13367.3	12974.9	13233.1	13759.7	14023.0	16480.7	17033.1	13382.8
27.5°	15768.2	15602.9	15288.0	14735.5	14446.4	14079.8	14456.7	14890.4	17084.7	18045.1	13816.5
30°	18200.0	18055.4	17441.0	16728.5	15969.5	15608.1	15726.8	15964.4	18174.2	19217.1	14389.6
32.5°	21860.6	21556.0	20667.9	19310.0	18277.4	17280.9	17250.0	17503.0	19150.0	20838.3	15071.1
35°	25893.0	25800.1	24493.8	23094.6	21096.5	19557.9	19583.7	19717.9	21019.0	22965.5	15964.4
37.5°	28572.7	29083.8	28252.6	26750.1	25072.1	22872.6	22315.0	22361.4	23585.1	25485.1	17575.2
40°	30643.1	30209.4	30307.5	29956.4	28810.2	27312.9	26078.9	25836.2	26553.9	28273.2	19175.8
42.5°	29739.5	29760.2	30364.3	31195.5	31479.5	31371.1	30111.3	29651.8	29094.2	30555.3	20698.9
45°	27189.0	27720.8	28505.6	30705.0	32636.0	34448.3	34200.5	33436.3	30849.6	32362.4	21576.7
47.5°	23120.4	23099.8	24385.4	27245.8	31536.3	35780.4	36905.9	36369.0	32093.9	32161.0	21395.9
48°	21618.0	21989.7	23316.6	26683.0	30839.3	35584.2	37148.6	36472.2	31882.2	31892.6	21241.1
50°	15979.8	15912.7	17564.9	21695.4	27545.2	33436.3	36126.3	36653.0	31877.1	30534.7	20156.8
52.5°	8441.7	8730.8	9933.8	13640.9	19475.3	27364.5	31866.7	32687.7	30751.5	28314.5	18597.5
55°	3588.4	3242.4	4166.6	6159.6	10956.1	18282.6	23378.6	25206.3	26001.4	25056.6	16269.0
57.5°	1280.5	1399.2	1610.9	2318.2	4605.5	10006.1	13940.4	15360.3	18014.1	18385.9	11085.2
60°	820.9	836.4	903.5	1063.6	1729.6	3856.8	6613.9	7744.7	8947.7	9236.8	5173.4
62.5°	635.1	640.2	671.2	697.0	820.9	1497.3	2483.5	2943.0	3056.6	2628.0	1357.9
65°	531.8	537.0	547.3	547.3	583.4	702.2	867.4	955.2	929.4	919.0	769.3
67.5°	407.9	418.2	438.9	438.9	459.5	428.5	480.2	511.1	578.3	702.2	655.7
70°	320.1	325.3	340.8	351.1	351.1	309.8	345.9	376.9	423.4	521.5	516.3
72.5°	247.8	258.2	268.5	268.5	253.0	211.7	247.8	273.6	304.6	361.4	351.1
75°	191.0	191.0	196.2	160.1	123.9	108.4	149.7	180.7	227.2	237.5	196.2
77.5°	51.6	56.8	51.6	46.5	51.6	77.4	98.1	113.6	144.6	144.6	129.1
80°	0.0	5.2	15.5	31.0	51.6	72.3	87.8	98.1	113.6	123.9	118.8
82.5°	0.0	5.2	15.5	31.0	46.5	56.8	77.4	82.6	92.9	108.4	108.4
85°	0.0	5.2	10.3	20.7	31.0	36.1	36.1	31.0	31.0	25.8	20.7
87.5°	0.0	0.0	5.2	10.3	10.3	15.5	15.5	15.5	15.5	15.5	15.5
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°	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1	10228.1
2.5°	10279.8	10119.7	9877.0	9495.0	9128.4	8890.9	8663.7	8410.7	8271.3	8261.0	8183.5
5°	10403.7	10042.3	9464.0	8808.3	8106.1	7502.0	6892.8	6495.2	6138.9	5942.7	5906.6
7.5°	10470.8	10001.0	9066.4	7966.7	6768.8	5782.7	5101.2	4600.3	4404.1	4259.6	4254.4
10°	10610.2	9928.7	8472.7	6851.5	5369.6	4373.2	3903.3	3676.1	3567.7	3526.4	3464.4
12.5°	10713.5	9794.4	7863.4	5705.2	4244.1	3624.5	3418.0	3366.4	3371.5	3392.2	3366.4
15°	10858.0	9675.7	7042.5	4682.9	3562.5	3263.1	3263.1	3273.4	3345.7	3356.0	3350.9
17.5°	10847.7	9443.3	6195.7	3856.8	3149.5	3108.2	3123.7	3221.8	3268.3	3283.7	3247.6
20°	10971.6	9226.5	5323.2	3294.1	2917.2	2979.1	3082.4	3108.2	3165.0	3175.3	3134.0
22.5°	10935.5	8684.4	4512.6	2850.0	2741.6	2860.4	2963.6	2994.6	2979.1	2948.1	2943.0
25°	10868.4	8219.7	3769.1	2555.7	2612.5	2741.6	2839.7	2782.9	2751.9	2757.1	2762.3
27.5°	10749.6	7631.1	3154.7	2349.2	2437.0	2628.0	2622.9	2602.2	2633.2	2607.4	2633.2
30°	10729.0	7042.5	2648.7	2163.3	2307.9	2447.3	2457.6	2493.8	2529.9	2483.5	2529.9
32.5°	10759.9	6397.1	2287.3	2049.8	2230.5	2235.6	2349.2	2385.4	2359.5	2256.3	2266.6
35°	10997.4	5901.4	2023.9	1987.8	2106.6	2111.7	2220.1	2173.7	2060.1	1998.1	2034.3
37.5°	11498.3	5488.4	1900.0	1931.0	1941.3	2008.5	2013.6	1920.7	1931.0	1925.8	1946.5
40°	12138.5	5173.4	1812.3	1879.4	1869.0	1915.5	1729.6	1781.3	1827.7	1843.2	1853.6
42.5°	12577.3	4946.3	1755.5	1796.8	1776.1	1693.5	1590.2	1641.9	1678.0	1734.8	1745.1
45°	12773.5	4765.6	1688.3	1652.2	1652.2	1502.5	1461.2	1471.5	1554.1	1616.1	1605.7
47.5°	12453.4	4590.0	1569.6	1461.2	1497.3	1373.4	1326.9	1326.9	1414.7	1492.1	1476.7
48°	12329.5	4517.7	1574.7	1419.9	1445.7	1352.7	1306.3	1295.9	1394.0	1466.3	1466.3
50°	11715.1	4249.2	1440.5	1306.3	1254.6	1244.3	1213.3	1223.7	1285.6	1352.7	1352.7
52.5°	10517.3	3671.0	1218.5	1120.4	1027.5	1089.4	1104.9	1084.3	1115.2	1177.2	1172.0
55°	8777.3	2819.1	975.8	929.4	857.1	924.2	955.2	929.4	898.4	944.8	944.8
57.5°	5622.6	1518.0	779.6	790.0	717.7	784.8	810.6	748.7	691.9	728.0	722.8
60°	2535.1	908.7	640.2	624.7	578.3	655.7	697.0	624.7	547.3	573.1	598.9
62.5°	950.0	645.4	485.3	475.0	464.7	537.0	557.6	500.8	423.4	438.9	444.0
65°	697.0	567.9	387.2	351.1	371.7	423.4	413.0	356.3	304.6	304.6	314.9
67.5°	593.8	495.7	314.9	273.6	273.6	278.8	258.2	227.2	211.7	222.0	232.3
70°	464.7	392.4	247.8	211.7	191.0	170.4	149.7	144.6	129.1	144.6	139.4
72.5°	299.5	263.3	191.0	160.1	144.6	118.8	98.1	92.9	77.4	72.3	72.3
75°	160.1	160.1	149.7	129.1	113.6	92.9	77.4	62.0	41.3	31.0	31.0
77.5°	113.6	123.9	134.2	123.9	103.3	77.4	62.0	41.3	20.7	10.3	10.3
80°	108.4	123.9	134.2	118.8	103.3	77.4	56.8	31.0	15.5	5.2	5.2
82.5°	98.1	113.6	123.9	108.4	92.9	67.1	51.6	31.0	15.5	5.2	5.2
85°	20.7	25.8	31.0	31.0	36.1	46.5	36.1	25.8	10.3	5.2	5.2
87.5°	15.5	15.5	15.5	15.5	15.5	15.5	10.3	10.3	5.2	5.2	5.2
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)