

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: P530411

Luminaire Tested: **GALN-SA5C-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530411
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-SA5C-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 19307 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

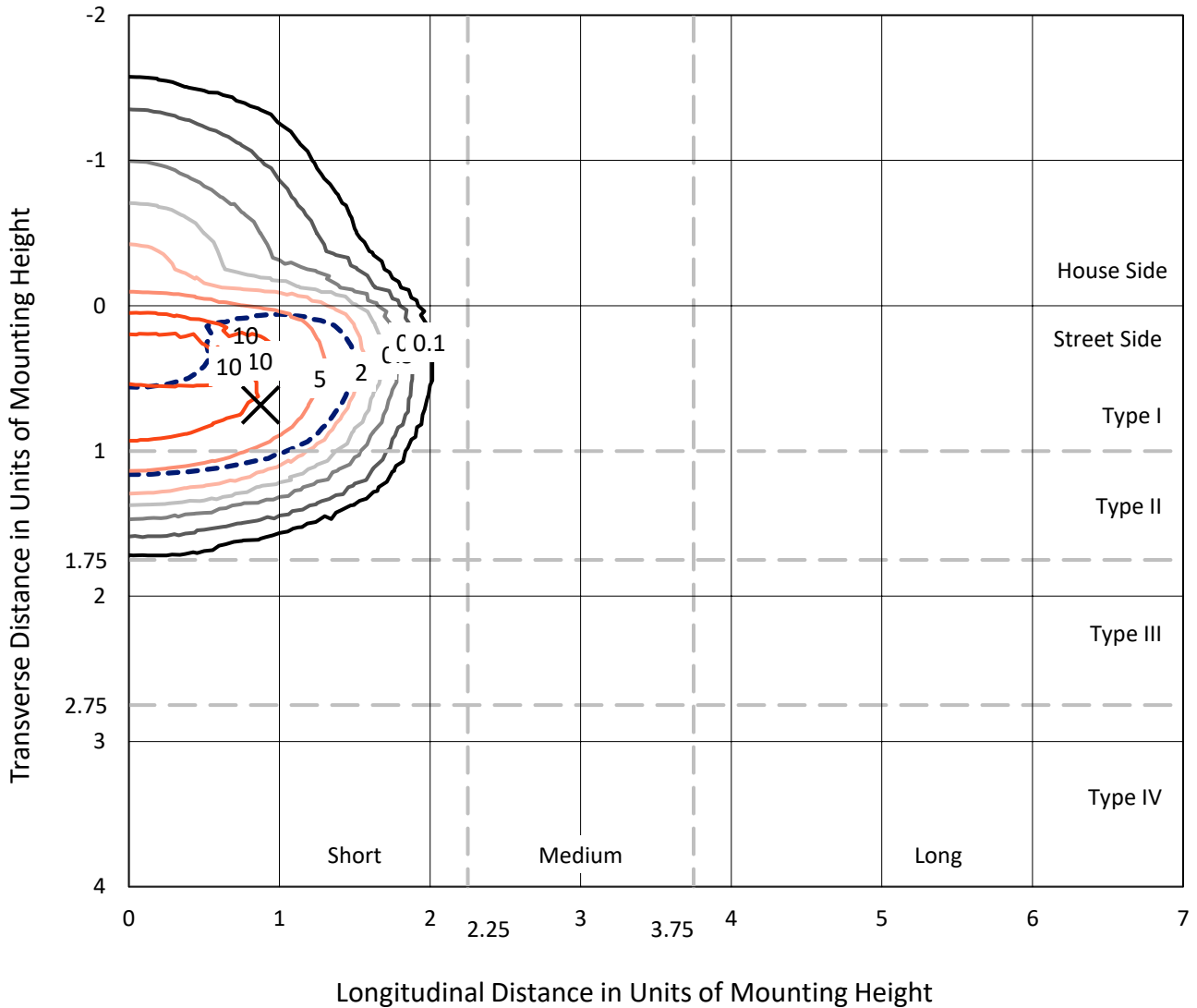
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

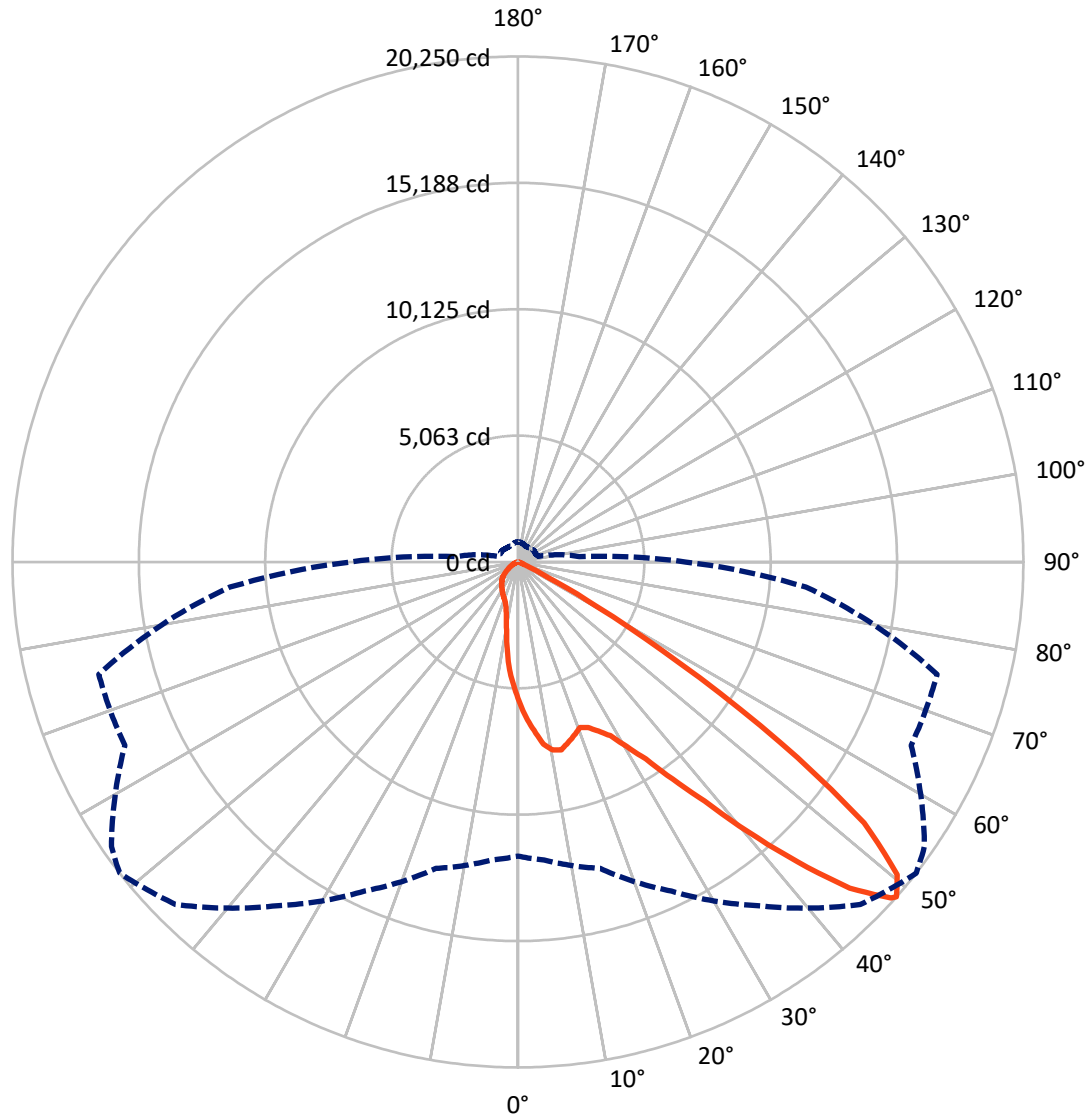
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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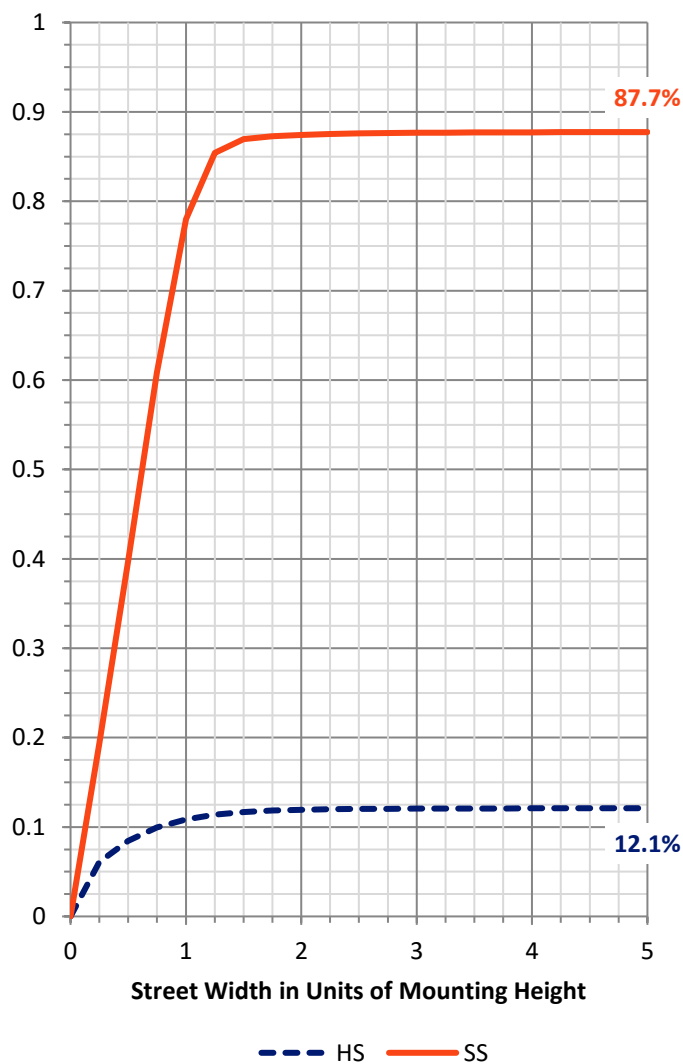
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2350.8	0.0	2350.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	16956.2	0.0	16956.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	19307.0	0.0	19307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.3	2.6
10°-20°	1333.7	6.9
20°-30°	2277.1	11.8
30°-40°	4193.3	21.7
40°-50°	6512.1	33.7
50°-60°	3919.2	20.3
60°-70°	453.3	2.3
70°-80°	87.7	0.5
80°-90°	20.3	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°	19307.0	100.0
0°-180°	19307.0	100.0

Coefficient of Utilization



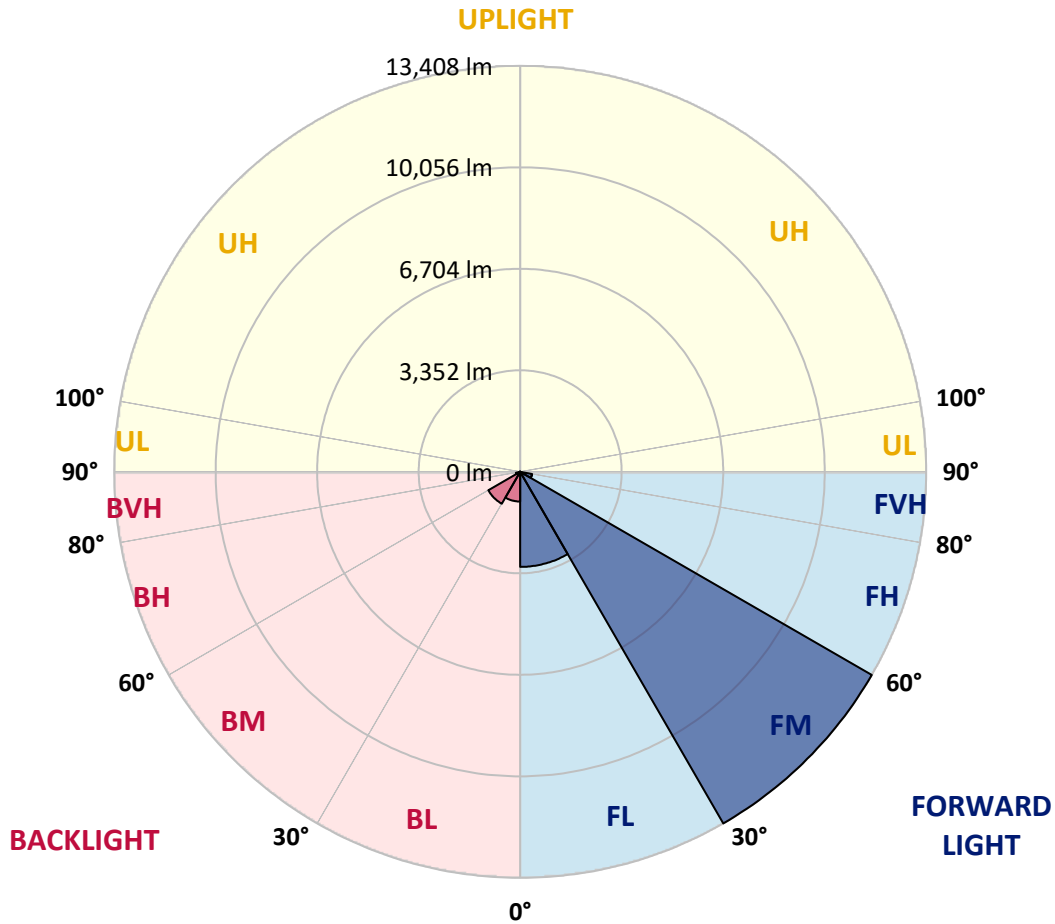
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3139.1	16.3			
FM (30°-60°)	13408.3	69.4			
FH (60°-80°)	399.2	2.1			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	982.0	5.1	B2/1000		
BM (30°-60°)	1216.3	6.3	B2/2500		
BH (60°-80°)	141.9	0.7	B1/500		G1/500
BVH (80°-90°)	10.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5
2.5°	6757.6	6602.8	6616.9	6515.6	6456.5	6360.8	6231.3	6206.0	6065.3	5873.9	5679.7
5°	7365.6	7329.0	7376.8	7230.5	7236.1	7078.5	6774.5	6780.2	6456.5	6144.1	5842.9
7.5°	7405.0	7320.5	7368.4	7497.9	7573.8	7545.7	7374.0	7224.8	6918.1	6459.3	6020.2
10°	6631.0	6791.4	6842.1	7056.0	7359.9	7680.8	7661.1	7669.5	7413.4	6813.9	6172.2
12.5°	6166.6	6059.6	6231.3	6360.8	6819.6	7441.6	7725.8	7787.7	7807.4	7157.3	6324.2
15°	5955.5	5955.5	5983.6	6020.2	6352.3	6926.5	7506.3	7686.4	8111.4	7607.6	6563.4
17.5°	6087.8	6082.2	6121.6	6045.6	6169.4	6611.3	7303.6	7509.1	8452.0	8049.5	6752.0
20°	6490.3	6510.0	6484.6	6265.1	6273.5	6605.7	7078.5	7402.2	8682.8	8432.3	7002.5
22.5°	7050.3	7061.6	6918.1	6678.8	6608.5	6771.7	7208.0	7455.6	8868.5	8891.0	7078.5
25°	7697.7	7652.6	7624.5	7286.8	7072.9	7213.6	7500.7	7644.2	8983.9	9285.1	7295.2
27.5°	8595.5	8505.4	8333.8	8032.6	7875.0	7675.2	7880.6	8117.0	9313.2	9836.7	7531.6
30°	9921.1	9842.3	9507.4	9119.0	8705.3	8508.3	8573.0	8702.5	9907.1	10475.6	7844.0
32.5°	11916.6	11750.6	11266.5	10526.3	9963.4	9420.2	9403.3	9541.2	10439.0	11359.4	8215.5
35°	14114.8	14064.1	13352.0	12589.3	11500.1	10661.4	10675.4	10748.6	11457.9	12518.9	8702.5
37.5°	15575.5	15854.1	15401.0	14582.0	13667.3	12468.3	12164.3	12189.6	12856.7	13892.4	9580.6
40°	16704.1	16467.7	16521.2	16329.8	15705.0	14888.7	14216.1	14083.8	14475.0	15412.2	10453.1
42.5°	16211.6	16222.8	16552.1	17005.3	17160.1	17101.0	16414.2	16163.7	15859.8	16656.3	11283.4
45°	14821.2	15111.1	15538.9	16737.9	17790.5	18778.4	18643.3	18226.8	16816.7	17641.3	11761.8
47.5°	12603.4	12592.1	13292.9	14852.2	17191.0	19504.5	20118.1	19825.4	17495.0	17531.6	11663.3
48°	11784.3	11987.0	12710.3	14545.4	16811.1	19397.6	20250.4	19881.7	17379.6	17385.2	11578.9
50°	8710.9	8674.3	9575.0	11826.6	15015.4	18226.8	19693.1	19980.2	17376.8	16645.0	10987.8
52.5°	4601.7	4759.3	5415.1	7435.9	10616.3	14916.9	17371.1	17818.7	16763.2	15434.8	10137.9
55°	1956.1	1767.5	2271.3	3357.7	5972.4	9966.2	12744.1	13740.4	14173.9	13658.8	8868.5
57.5°	698.0	762.7	878.1	1263.7	2510.5	5454.5	7599.2	8373.2	9819.8	10022.5	6042.7
60°	447.5	456.0	492.5	579.8	942.9	2102.4	3605.4	4221.8	4877.5	5035.2	2820.1
62.5°	346.2	349.0	365.9	380.0	447.5	816.2	1353.8	1604.3	1666.2	1432.6	740.2
65°	289.9	292.7	298.3	298.3	318.0	382.8	472.8	520.7	506.6	501.0	419.4
67.5°	222.3	228.0	239.2	239.2	250.5	233.6	261.7	278.6	315.2	382.8	357.4
70°	174.5	177.3	185.8	191.4	191.4	168.9	188.6	205.5	230.8	284.3	281.5
72.5°	135.1	140.7	146.4	146.4	137.9	115.4	135.1	149.2	166.1	197.0	191.4
75°	104.1	104.1	107.0	87.2	67.5	59.1	81.6	98.5	123.8	129.5	107.0
77.5°	28.1	31.0	28.1	25.3	28.1	42.2	53.5	61.9	78.8	78.8	70.4
80°	0.0	2.8	8.4	16.9	28.1	39.4	47.8	53.5	61.9	67.5	64.7
82.5°	0.0	2.8	8.4	16.9	25.3	31.0	42.2	45.0	50.7	59.1	59.1
85°	0.0	2.8	5.6	11.3	16.9	19.7	19.7	16.9	16.9	14.1	11.3
87.5°	0.0	0.0	2.8	5.6	5.6	8.4	8.4	8.4	8.4	8.4	8.4
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°	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5	5575.5
2.5°	5603.7	5516.4	5384.2	5175.9	4976.1	4846.6	4722.7	4584.8	4508.8	4503.2	4461.0
5°	5671.2	5474.2	5159.0	4801.6	4418.8	4089.5	3757.4	3540.7	3346.5	3239.5	3219.8
7.5°	5707.8	5451.7	4942.3	4342.8	3689.8	3152.2	2780.7	2507.7	2400.8	2322.0	2319.2
10°	5783.8	5412.3	4618.6	3734.9	2927.1	2383.9	2127.8	2003.9	1944.8	1922.3	1888.5
12.5°	5840.1	5339.1	4286.5	3110.0	2313.5	1975.8	1863.2	1835.1	1837.9	1849.1	1835.1
15°	5918.9	5274.4	3839.0	2552.8	1942.0	1778.8	1778.8	1784.4	1823.8	1829.4	1826.6
17.5°	5913.3	5147.7	3377.4	2102.4	1716.9	1694.3	1702.8	1756.3	1781.6	1790.0	1770.3
20°	5980.8	5029.5	2901.8	1795.7	1590.2	1624.0	1680.3	1694.3	1725.3	1730.9	1708.4
22.5°	5961.1	4734.0	2459.9	1553.6	1494.5	1559.2	1615.5	1632.4	1624.0	1607.1	1604.3
25°	5924.5	4480.7	2054.6	1393.2	1424.1	1494.5	1548.0	1517.0	1500.1	1502.9	1505.8
27.5°	5859.8	4159.8	1719.7	1280.6	1328.4	1432.6	1429.8	1418.5	1435.4	1421.3	1435.4
30°	5848.5	3839.0	1443.8	1179.3	1258.1	1334.1	1339.7	1359.4	1379.1	1353.8	1379.1
32.5°	5865.4	3487.2	1246.8	1117.4	1215.9	1218.7	1280.6	1300.3	1286.2	1229.9	1235.6
35°	5994.9	3217.0	1103.3	1083.6	1148.3	1151.1	1210.2	1184.9	1123.0	1089.2	1108.9
37.5°	6267.9	2991.8	1035.7	1052.6	1058.3	1094.8	1097.7	1047.0	1052.6	1049.8	1061.1
40°	6616.9	2820.1	987.9	1024.5	1018.9	1044.2	942.9	971.0	996.3	1004.8	1010.4
42.5°	6856.1	2696.3	956.9	979.4	968.2	923.2	866.9	895.0	914.7	945.7	951.3
45°	6963.1	2597.8	920.3	900.6	900.6	819.0	796.5	802.1	847.2	880.9	875.3
47.5°	6788.6	2502.1	855.6	796.5	816.2	748.7	723.3	723.3	771.2	813.4	804.9
48°	6721.0	2462.7	858.4	774.0	788.1	737.4	712.1	706.4	759.9	799.3	799.3
50°	6386.1	2316.3	785.2	712.1	683.9	678.3	661.4	667.0	700.8	737.4	737.4
52.5°	5733.2	2001.1	664.2	610.7	560.1	593.9	602.3	591.0	607.9	641.7	638.9
55°	4784.7	1536.7	531.9	506.6	467.2	503.8	520.7	506.6	489.7	515.1	515.1
57.5°	3065.0	827.5	425.0	430.6	391.2	427.8	441.9	408.1	377.1	396.8	394.0
60°	1381.9	495.4	349.0	340.6	315.2	357.4	380.0	340.6	298.3	312.4	326.5
62.5°	517.9	351.8	264.6	258.9	253.3	292.7	304.0	273.0	230.8	239.2	242.0
65°	380.0	309.6	211.1	191.4	202.6	230.8	225.2	194.2	166.1	166.1	171.7
67.5°	323.7	270.2	171.7	149.2	149.2	152.0	140.7	123.8	115.4	121.0	126.7
70°	253.3	213.9	135.1	115.4	104.1	92.9	81.6	78.8	70.4	78.8	76.0
72.5°	163.2	143.5	104.1	87.2	78.8	64.7	53.5	50.7	42.2	39.4	39.4
75°	87.2	87.2	81.6	70.4	61.9	50.7	42.2	33.8	22.5	16.9	16.9
77.5°	61.9	67.5	73.2	67.5	56.3	42.2	33.8	22.5	11.3	5.6	5.6
80°	59.1	67.5	73.2	64.7	56.3	42.2	31.0	16.9	8.4	2.8	2.8
82.5°	53.5	61.9	67.5	59.1	50.7	36.6	28.1	16.9	8.4	2.8	2.8
85°	11.3	14.1	16.9	16.9	19.7	25.3	19.7	14.1	5.6	2.8	2.8
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	5.6	5.6	2.8	2.8	2.8
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)