

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: P530677

Luminaire Tested: **GALN-SA5D-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530677  
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-830-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 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: 18003 lumens  
Efficiency: N/A  
Efficacy: 58.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

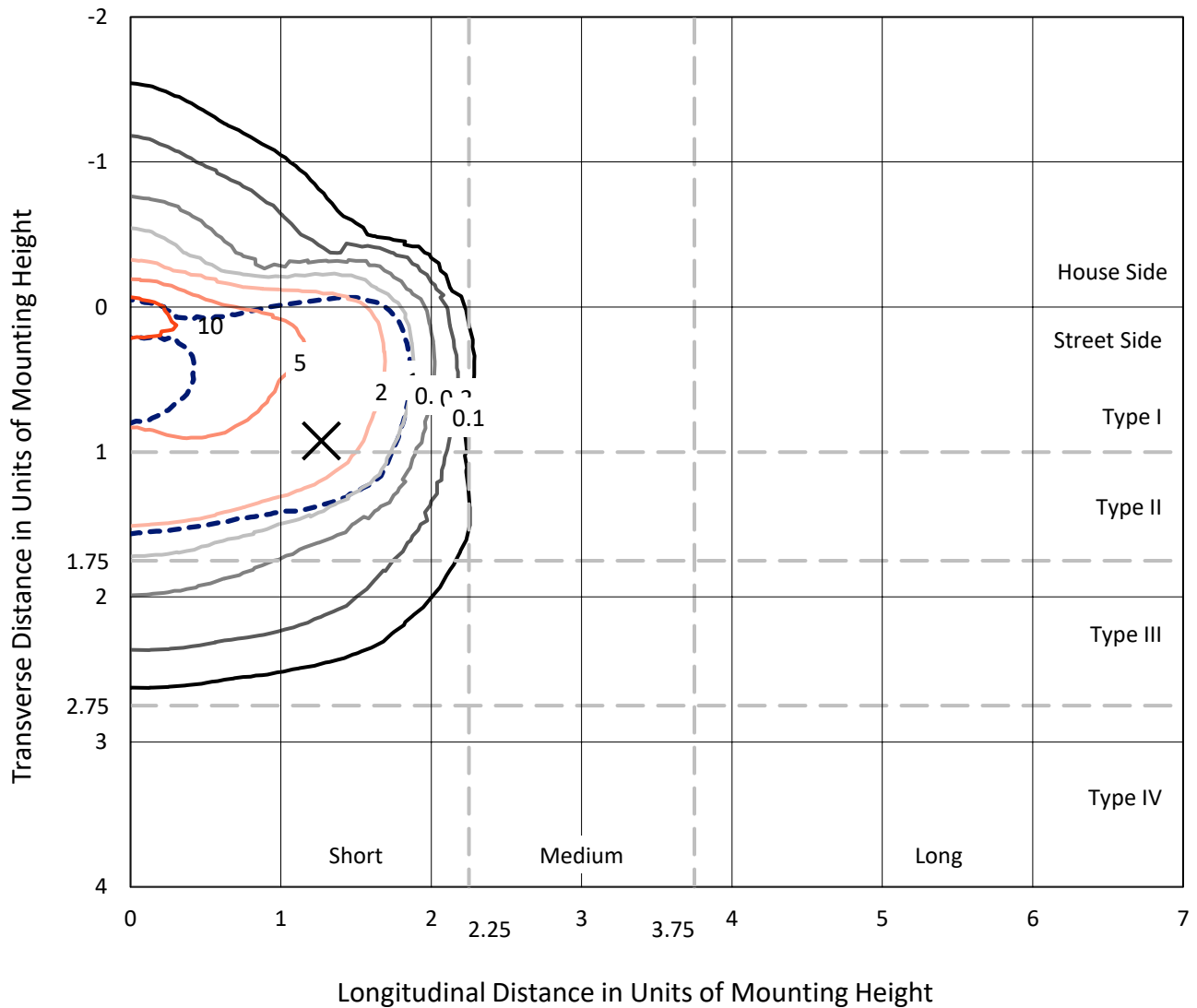
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

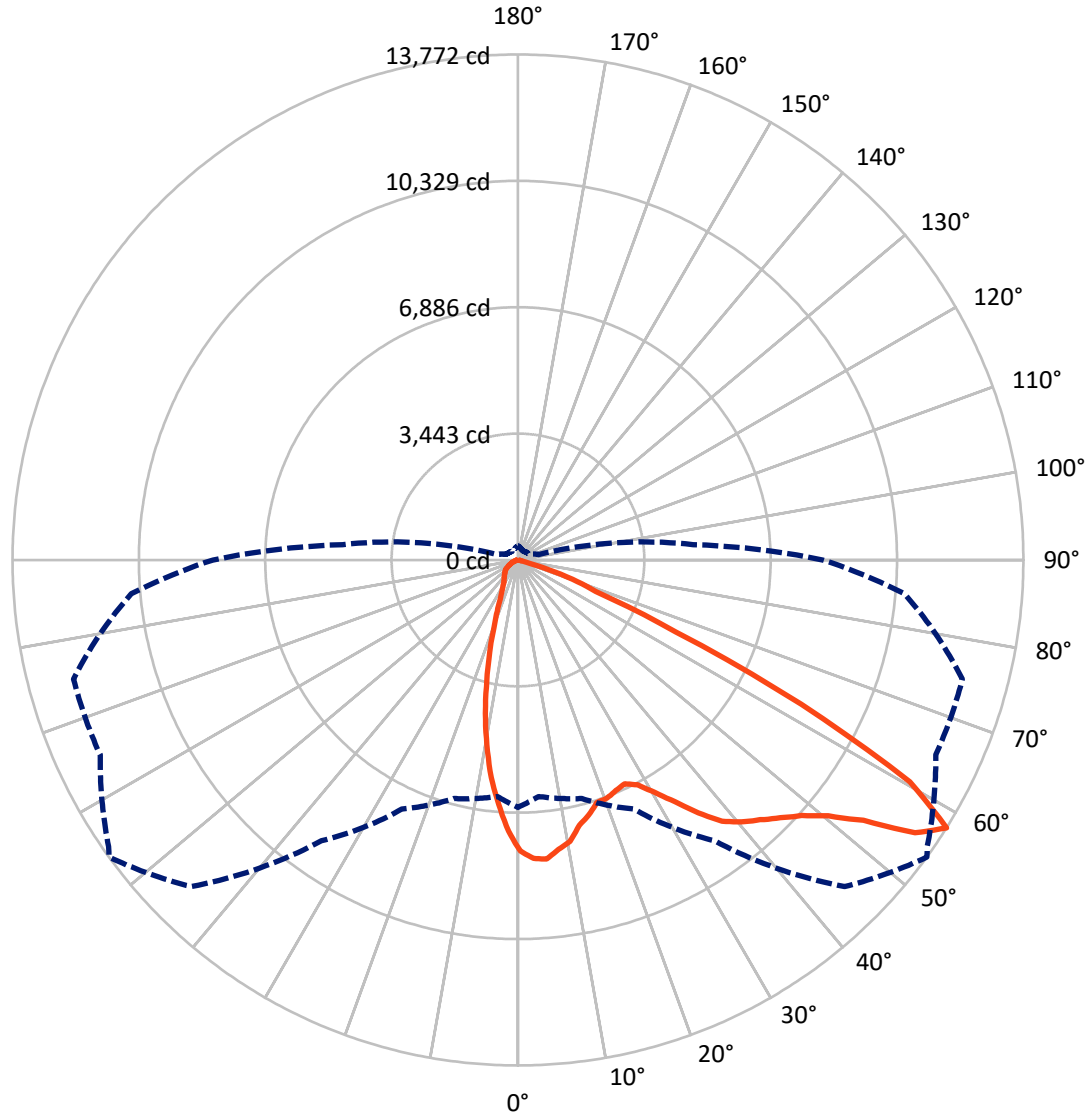
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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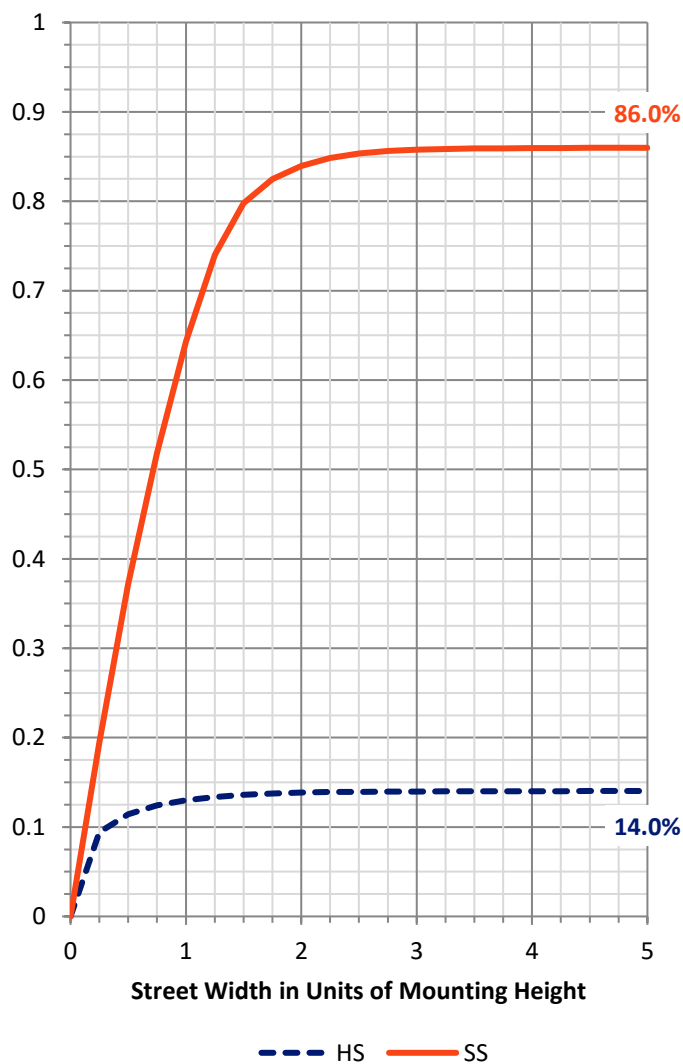
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2544.1	0.0	2544.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	15458.9	0.0	15458.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	18003.0	0.0	18003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.6	3.7
10°-20°	1416.9	7.9
20°-30°	1877.6	10.4
30°-40°	2728.7	15.2
40°-50°	4046.3	22.5
50°-60°	5059.8	28.1
60°-70°	1995.8	11.1
70°-80°	198.7	1.1
80°-90°	15.4	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°	18003.0	100.0
0°-180°	18003.0	100.0

**Coefficient of Utilization**

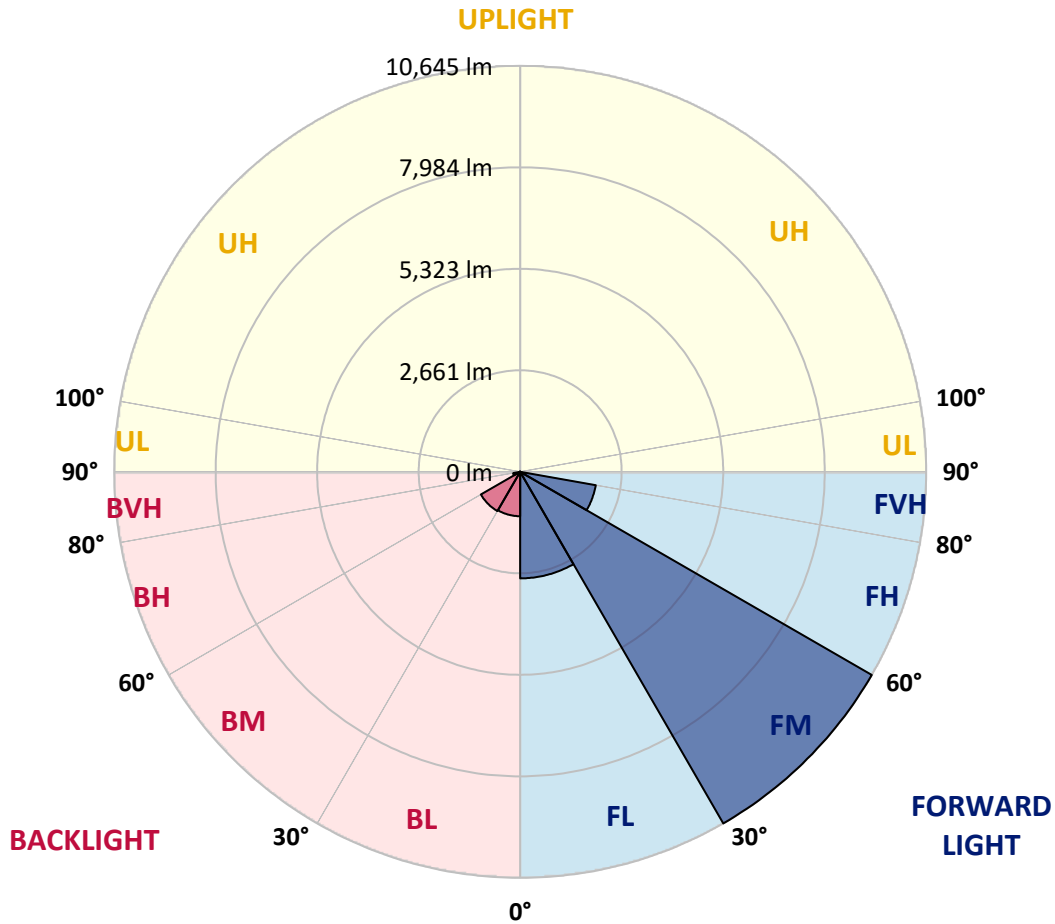


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2794.6	15.5			
FM (30°-60°)	10645.1	59.1			
FH (60°-80°)	2012.1	11.2			G2/5000
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	1163.6	6.5	B3/2500		
BM (30°-60°)	1189.7	6.6	B2/2500		
BH (60°-80°)	182.4	1.0	B1/500		G1/500
BVH (80°-90°)	8.4	0.0			G0/10
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°	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6
2.5°	8392.5	8305.5	8312.2	8282.1	8241.9	8272.0	8141.5	8171.6	8168.2	7990.8	7873.7
5°	8181.6	8275.4	8178.3	8258.6	8181.6	8265.3	8185.0	8124.7	8027.6	7897.1	7679.5
7.5°	7823.4	7733.1	7759.8	7860.3	7877.0	8064.5	7964.0	8041.0	8000.9	7743.1	7445.2
10°	7103.7	7083.6	7217.5	7351.4	7515.5	7716.3	7793.3	7749.8	7719.7	7622.6	7224.2
12.5°	6551.3	6608.2	6604.9	6825.8	7103.7	7217.5	7418.4	7411.7	7579.1	7398.3	7016.7
15°	6025.8	6055.9	6196.5	6333.7	6641.7	6966.4	7214.2	7247.6	7448.5	7321.3	6856.0
17.5°	5704.4	5660.9	5771.3	5935.4	6250.0	6675.2	6949.7	7030.0	7304.6	7277.8	6671.9
20°	5386.4	5386.4	5476.7	5670.9	5958.8	6437.5	6926.3	6902.8	7304.6	7227.6	6474.3
22.5°	5279.2	5332.8	5356.2	5503.5	5845.0	6256.7	6825.8	6869.4	7361.5	7204.1	6387.3
25°	5426.5	5356.2	5362.9	5480.1	5801.5	6169.7	6752.2	6849.3	7465.2	7321.3	6317.0
27.5°	5450.0	5520.3	5540.3	5620.7	5834.9	6196.5	6936.3	7133.8	7723.0	7595.8	6337.1
30°	5654.2	5724.5	5721.1	5858.4	6005.7	6414.1	7348.1	7388.2	8255.3	7940.6	6460.9
32.5°	5901.9	5975.5	5999.0	6159.7	6276.8	6812.5	7850.2	7954.0	8767.5	8482.9	6785.7
35°	6209.9	6183.1	6290.2	6450.9	6702.0	7394.9	8462.8	8636.9	9319.8	9185.9	7120.4
37.5°	6594.9	6561.4	6665.2	6926.3	7267.7	8084.6	9028.6	9142.4	9721.6	9838.7	7739.7
40°	6866.0	6879.4	7194.1	7545.6	7907.1	8740.7	9386.8	9497.3	10002.8	10448.0	8208.4
42.5°	7317.9	7401.6	7779.9	8208.4	8586.7	9232.8	9678.0	9785.2	10133.3	10936.7	8841.1
45°	7974.1	7937.3	8355.7	8834.4	9252.9	9745.0	10022.8	9986.0	10210.3	11422.2	9239.5
47.5°	8817.7	8824.4	9102.2	9510.7	9945.8	10190.2	10407.8	10277.3	10371.0	11934.3	9771.8
50°	9393.5	9443.7	9668.0	10086.4	10304.0	10679.0	10956.8	10876.5	10846.4	12242.3	10106.5
52.5°	9540.8	9691.4	9811.9	10334.2	10843.0	11435.5	11790.4	11961.1	11425.5	12346.1	10531.7
55°	8429.4	8563.3	8988.4	9704.8	11047.2	12634.0	13122.8	13126.1	12182.1	12808.1	10829.6
57.5°	6738.8	6467.6	6728.8	7488.7	9339.9	12583.8	13772.2	13614.9	12560.4	12536.9	10571.9
60°	4659.9	4593.0	4609.7	4911.0	6464.3	10009.4	12272.5	12476.7	11566.1	10866.4	8369.1
62.5°	3692.4	3635.5	3561.9	3528.4	4013.8	6236.7	8657.0	8944.9	8087.9	7046.8	4961.2
65°	2892.4	2858.9	2868.9	3002.8	2999.5	3538.5	4733.6	4616.4	3695.8	2731.7	1560.0
67.5°	1951.7	2001.9	2042.1	2447.1	2654.7	2463.9	2286.4	2219.5	1201.8	505.5	344.8
70°	1098.0	1104.7	1148.2	1529.9	2015.3	1911.5	1576.7	1576.7	599.2	184.1	197.5
72.5°	599.2	579.1	539.0	659.5	897.2	910.6	703.0	612.6	177.4	120.5	110.5
75°	291.2	287.9	247.7	204.2	194.2	160.7	123.9	113.8	80.3	77.0	67.0
77.5°	60.3	56.9	30.1	30.1	33.5	36.8	46.9	46.9	56.9	56.9	46.9
80°	0.0	0.0	3.3	13.4	23.4	33.5	40.2	40.2	46.9	46.9	36.8
82.5°	0.0	0.0	3.3	10.0	20.1	30.1	36.8	40.2	46.9	50.2	40.2
85°	0.0	0.0	0.0	6.7	16.7	23.4	20.1	20.1	16.7	13.4	6.7
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°	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6	7930.6
2.5°	7813.4	7806.7	7652.7	7565.7	7408.3	7271.1	7160.6	7080.3	7080.3	7030.0	6983.2
5°	7592.5	7535.5	7207.5	6996.6	6698.6	6477.7	6327.0	6209.9	6025.8	6076.0	5878.5
7.5°	7317.9	7174.0	6738.8	6417.4	6005.7	5691.0	5369.6	5085.1	4810.6	4686.7	4753.7
10°	7023.4	6772.3	6186.4	5677.6	5165.4	4589.6	4214.7	3759.4	3478.2	3461.5	3387.8
12.5°	6712.0	6427.5	5714.4	5011.4	4338.5	3645.6	3073.1	2648.0	2457.2	2246.3	2286.4
15°	6477.7	6055.9	5188.8	4341.9	3448.1	2748.4	2172.6	1844.6	1663.8	1613.6	1596.8
17.5°	6223.3	5771.3	4653.2	3628.8	2704.9	1978.5	1563.3	1406.0	1335.7	1335.7	1325.7
20°	5958.8	5450.0	4120.9	2966.0	2028.7	1476.3	1252.0	1201.8	1198.5	1195.1	1195.1
22.5°	5784.7	5081.7	3638.9	2356.7	1529.9	1181.7	1088.0	1067.9	1081.3	1121.5	1121.5
25°	5600.6	4726.9	3106.6	1817.8	1185.1	1014.3	960.8	974.2	1007.6	1044.5	1031.1
27.5°	5413.1	4495.9	2604.5	1426.1	970.8	887.1	867.0	897.2	934.0	967.5	957.4
30°	5369.6	4248.2	2129.1	1081.3	833.6	773.3	786.7	813.5	850.3	863.7	877.1
32.5°	5436.6	4054.0	1744.1	887.1	726.4	709.7	709.7	723.1	746.5	776.7	766.6
35°	5627.4	3943.5	1379.2	770.0	666.2	649.4	646.1	659.5	672.9	682.9	672.9
37.5°	5918.6	3856.5	1128.2	682.9	626.0	599.2	592.5	589.2	602.6	605.9	612.6
40°	6290.2	3903.4	957.4	629.4	585.8	555.7	535.6	535.6	535.6	545.7	549.0
42.5°	6691.9	3967.0	826.9	599.2	549.0	512.2	492.1	485.4	492.1	505.5	502.1
45°	7113.7	4090.8	743.2	552.4	515.5	468.7	441.9	435.2	451.9	478.7	475.4
47.5°	7508.8	4268.2	679.6	522.2	482.1	438.5	405.1	398.4	428.5	465.3	468.7
50°	7903.8	4576.2	656.1	498.8	458.6	408.4	378.3	371.6	405.1	451.9	462.0
52.5°	8359.1	4907.6	639.4	468.7	431.8	385.0	351.5	344.8	381.6	441.9	445.2
55°	8657.0	5188.8	626.0	415.1	381.6	348.2	321.4	318.0	358.2	411.8	425.2
57.5°	8308.8	4797.2	579.1	361.5	324.7	308.0	284.5	284.5	318.0	368.2	378.3
60°	6300.3	3156.8	411.8	291.2	274.5	264.5	254.4	254.4	281.2	318.0	321.4
62.5°	3689.1	1700.6	264.5	234.3	234.3	224.3	207.6	207.6	234.3	254.4	257.8
65°	1094.7	545.7	214.2	200.9	197.5	180.8	164.0	160.7	180.8	190.8	187.5
67.5°	314.7	251.1	177.4	167.4	164.0	137.3	127.2	123.9	127.2	120.5	117.2
70°	187.5	170.7	137.3	140.6	123.9	100.4	90.4	87.0	80.3	70.3	63.6
72.5°	103.8	103.8	100.4	107.1	87.0	67.0	56.9	46.9	36.8	30.1	26.8
75°	63.6	67.0	70.3	73.6	56.9	43.5	36.8	23.4	13.4	6.7	6.7
77.5°	43.5	46.9	50.2	53.6	46.9	40.2	30.1	16.7	3.3	0.0	0.0
80°	33.5	36.8	43.5	46.9	50.2	53.6	40.2	16.7	3.3	0.0	0.0
82.5°	36.8	40.2	50.2	46.9	46.9	46.9	36.8	16.7	3.3	0.0	0.0
85°	6.7	10.0	16.7	16.7	23.4	30.1	23.4	6.7	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)