

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: P530645

Luminaire Tested: **GALN-SA5D-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530645
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-SA5D-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA 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: 21245 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

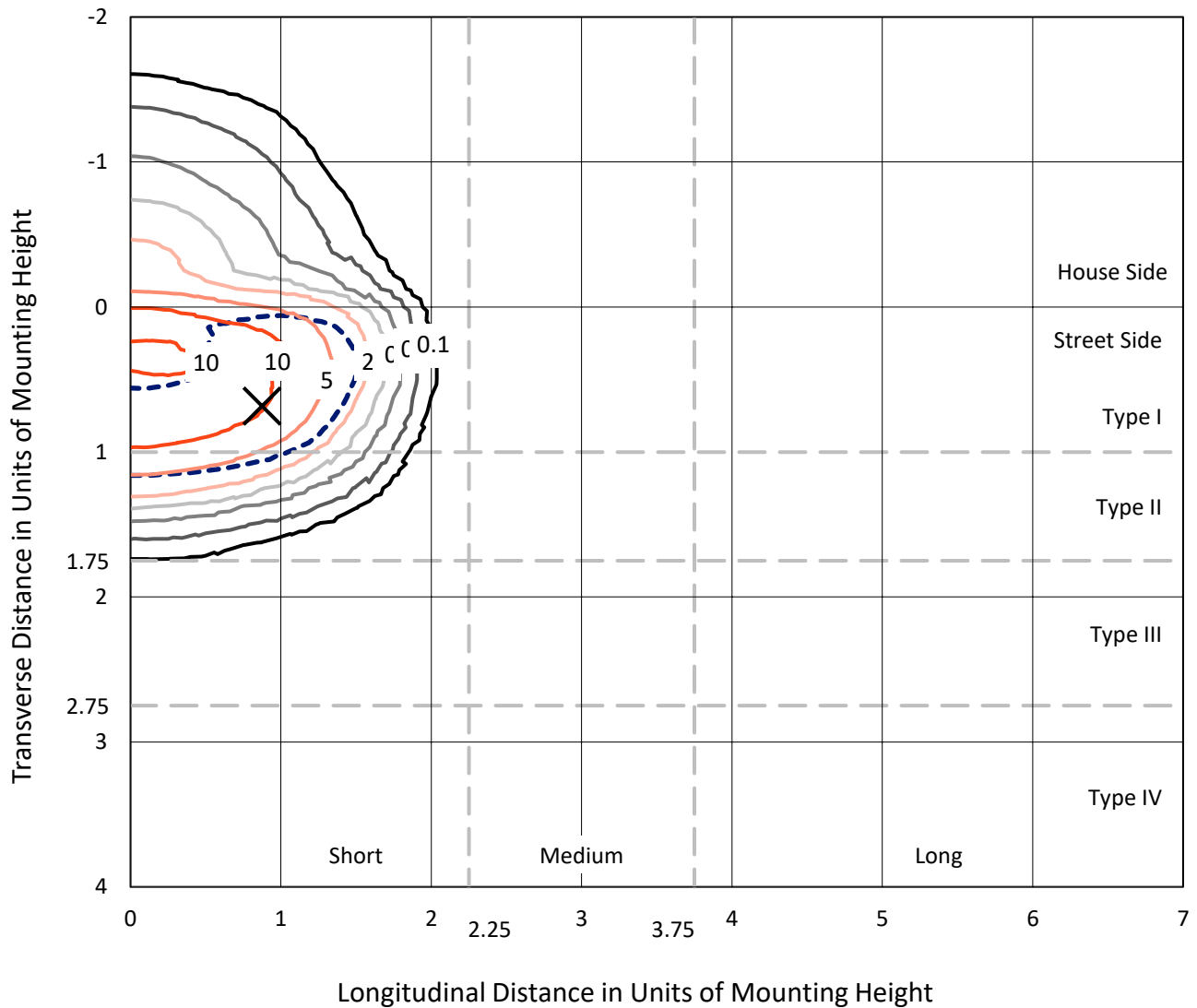
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

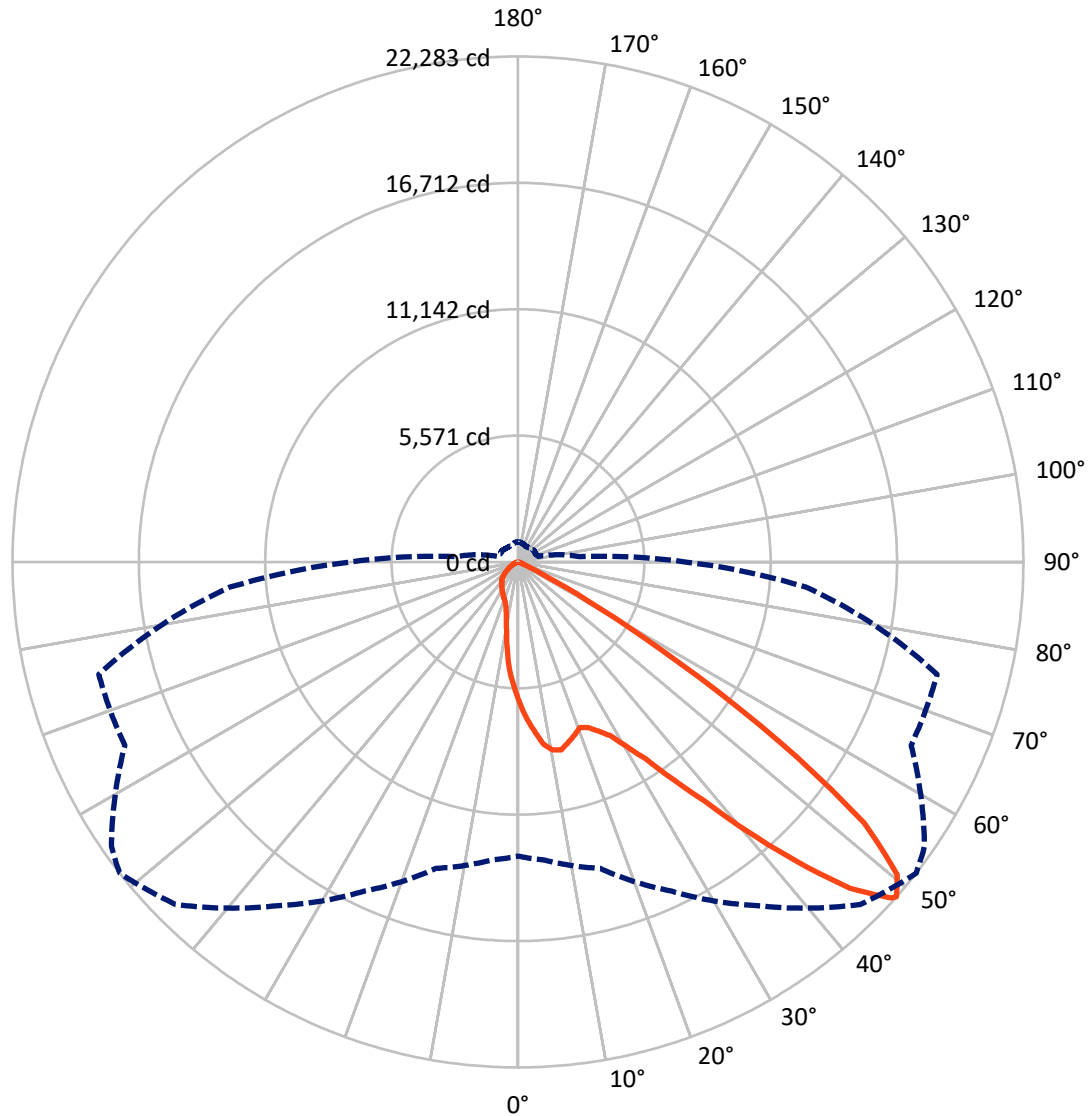
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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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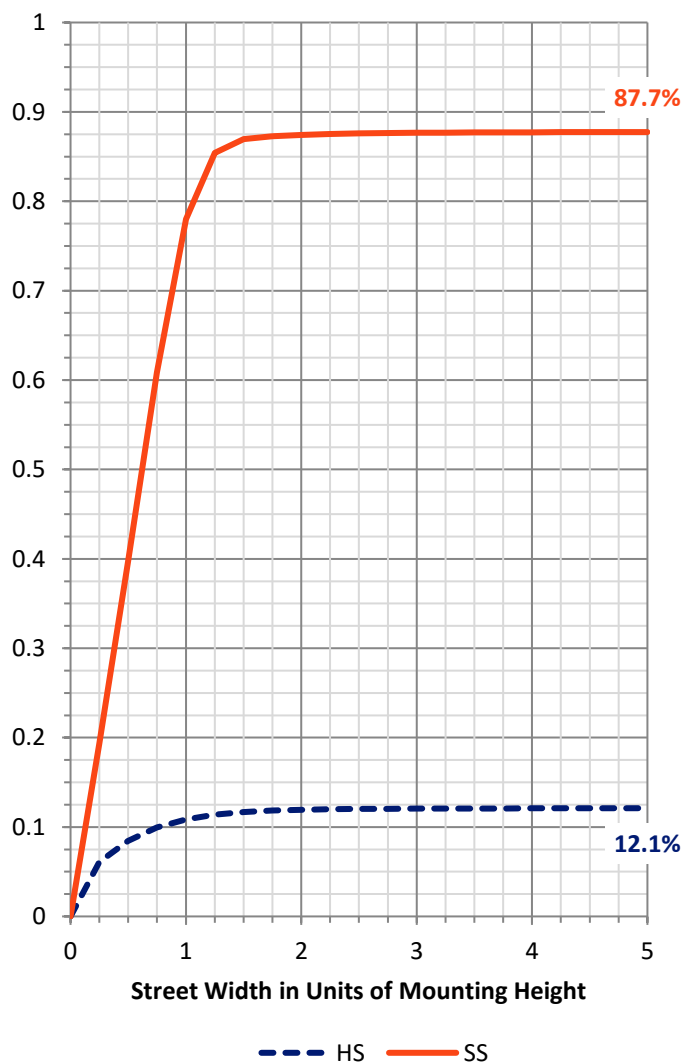
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2586.8	0.0	2586.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18658.3	0.0	18658.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	21245.0	0.0	21245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.5	2.6
10°-20°	1467.5	6.9
20°-30°	2505.7	11.8
30°-40°	4614.2	21.7
40°-50°	7165.8	33.7
50°-60°	4312.6	20.3
60°-70°	498.8	2.3
70°-80°	96.5	0.5
80°-90°	22.3	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°	21245.0	100.0
0°-180°	21245.0	100.0

Coefficient of Utilization



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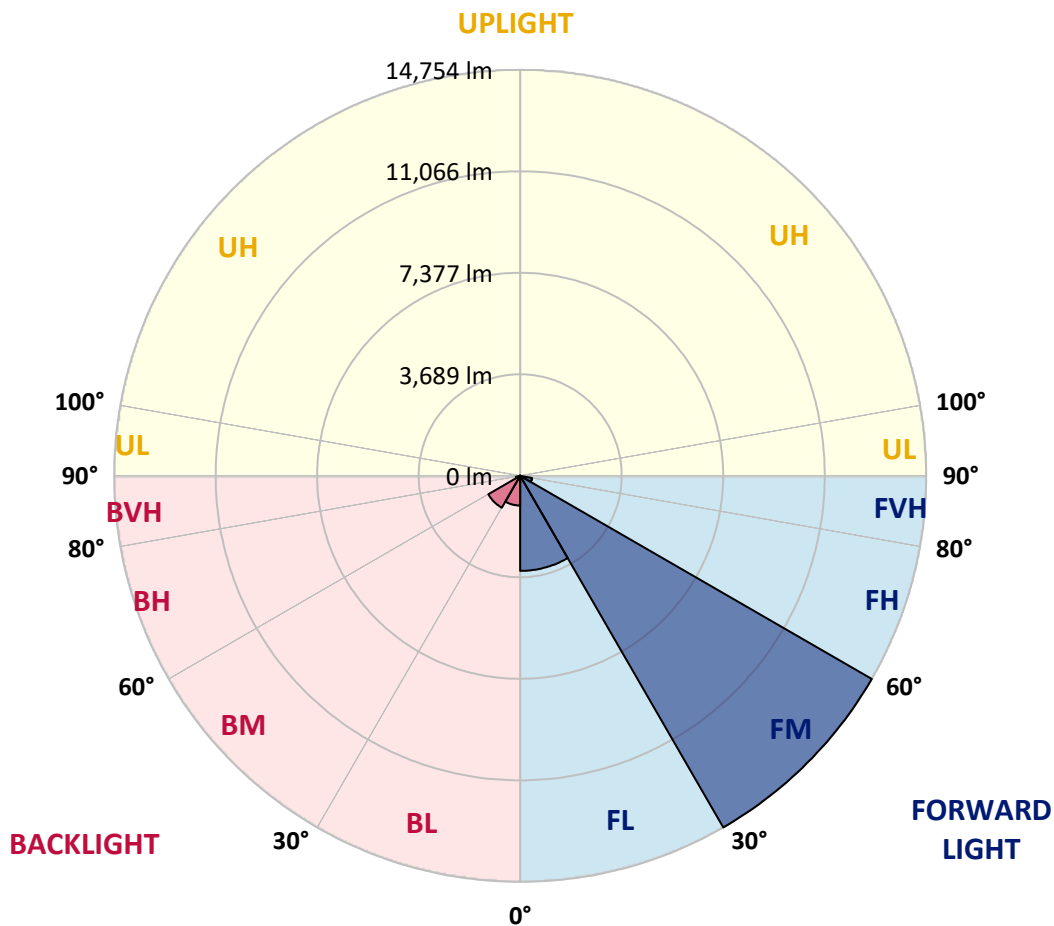
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3454.2	16.3			
FM (30°-60°)	14754.2	69.4			
FH (60°-80°)	439.2	2.1			G0/660
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	1080.6	5.1	B3/2500		
BM (30°-60°)	1338.4	6.3	B2/2500		
BH (60°-80°)	156.1	0.7	B1/500		G1/500
BVH (80°-90°)	11.7	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°	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2
2.5°	7436.0	7265.6	7281.1	7169.6	7104.6	6999.3	6856.8	6828.9	6674.1	6463.5	6249.8
5°	8104.9	8064.6	8117.3	7956.3	7962.4	7789.0	7454.5	7460.7	7104.6	6760.8	6429.4
7.5°	8148.3	8055.4	8108.0	8250.5	8334.1	8303.1	8114.2	7950.1	7612.5	7107.7	6624.5
10°	7296.6	7473.1	7528.9	7764.2	8098.7	8451.8	8430.1	8439.4	8157.6	7497.9	6791.8
12.5°	6785.6	6667.9	6856.8	6999.3	7504.1	8188.5	8501.3	8569.5	8591.1	7875.7	6959.0
15°	6553.3	6553.3	6584.3	6624.5	6990.0	7621.8	8259.8	8458.0	8925.6	8371.3	7222.3
17.5°	6698.9	6692.7	6736.0	6652.4	6788.7	7274.9	8036.8	8262.9	9300.4	8857.5	7429.8
20°	7141.7	7163.4	7135.5	6894.0	6903.3	7268.7	7789.0	8145.2	9554.3	9278.7	7705.4
22.5°	7758.0	7770.4	7612.5	7349.2	7271.8	7451.4	7931.5	8204.0	9758.7	9783.5	7789.0
25°	8470.4	8420.8	8389.8	8018.2	7782.8	7937.7	8253.6	8411.5	9885.7	10217.1	8027.5
27.5°	9458.3	9359.2	9170.3	8838.9	8665.5	8445.6	8671.7	8931.8	10248.1	10824.1	8287.6
30°	10917.0	10830.3	10461.7	10034.4	9579.1	9362.3	9433.5	9576.0	10901.5	11527.1	8631.4
32.5°	13112.8	12930.1	12397.4	11582.9	10963.5	10365.7	10347.2	10498.9	11486.9	12499.6	9040.2
35°	15531.6	15475.8	14692.3	13853.0	12654.4	11731.5	11747.0	11827.5	12608.0	13775.6	9576.0
37.5°	17138.9	17445.5	16946.9	16045.7	15039.1	13719.8	13385.3	13413.2	14147.2	15286.9	10542.3
40°	18380.8	18120.7	18179.5	17968.9	17281.4	16383.3	15643.1	15497.5	15928.0	16959.3	11502.3
42.5°	17838.9	17851.2	18213.6	18712.2	18882.6	18817.5	18061.8	17786.2	17451.7	18328.2	12416.0
45°	16308.9	16627.9	17098.7	18418.0	19576.3	20663.3	20514.7	20056.3	18504.7	19412.1	12942.5
47.5°	13868.5	13856.1	14627.2	16343.0	18916.6	21462.4	22137.5	21815.4	19251.1	19291.4	12834.1
48°	12967.2	13190.2	13986.2	16005.4	18498.5	21344.7	22283.1	21877.4	19124.1	19130.3	12741.2
50°	9585.3	9545.0	10536.1	13013.7	16522.6	20056.3	21669.9	21985.8	19121.0	18315.8	12090.8
52.5°	5063.6	5237.1	5958.7	8182.3	11682.0	16414.2	19114.8	19607.3	18445.9	16984.1	11155.5
55°	2152.4	1944.9	2499.3	3694.7	6571.9	10966.6	14023.3	15119.7	15596.6	15029.9	9758.7
57.5°	768.1	839.3	966.3	1390.6	2762.5	6002.0	8362.0	9213.6	10805.5	11028.5	6649.3
60°	492.4	501.7	542.0	638.0	1037.5	2313.5	3967.3	4645.5	5367.1	5540.6	3103.2
62.5°	380.9	384.0	402.6	418.1	492.4	898.1	1489.7	1765.3	1833.4	1576.4	814.5
65°	319.0	322.1	328.3	328.3	350.0	421.2	520.3	572.9	557.5	551.3	461.5
67.5°	244.7	250.9	263.2	263.2	275.6	257.1	288.0	306.6	346.9	421.2	393.3
70°	192.0	195.1	204.4	210.6	210.6	185.8	207.5	226.1	254.0	312.8	309.7
72.5°	148.7	154.9	161.0	161.0	151.8	127.0	148.7	164.1	182.7	216.8	210.6
75°	114.6	114.6	117.7	96.0	74.3	65.0	89.8	108.4	136.3	142.5	117.7
77.5°	31.0	34.1	31.0	27.9	31.0	46.5	58.8	68.1	86.7	86.7	77.4
80°	0.0	3.1	9.3	18.6	31.0	43.4	52.6	58.8	68.1	74.3	71.2
82.5°	0.0	3.1	9.3	18.6	27.9	34.1	46.5	49.6	55.7	65.0	65.0
85°	0.0	3.1	6.2	12.4	18.6	21.7	21.7	18.6	18.6	15.5	12.4
87.5°	0.0	0.0	3.1	6.2	6.2	9.3	9.3	9.3	9.3	9.3	9.3
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°	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2	6135.2
2.5°	6166.2	6070.2	5924.6	5695.4	5475.5	5333.1	5196.8	5045.1	4961.4	4955.2	4908.8
5°	6240.5	6023.7	5676.8	5283.5	4862.3	4500.0	4134.5	3896.1	3682.4	3564.7	3543.0
7.5°	6280.8	5998.9	5438.4	4778.7	4060.2	3468.7	3059.9	2759.4	2641.8	2555.0	2551.9
10°	6364.4	5955.6	5082.2	4109.7	3220.9	2623.2	2341.3	2205.1	2140.0	2115.3	2078.1
12.5°	6426.3	5875.1	4716.8	3422.2	2545.8	2174.1	2050.2	2019.3	2022.4	2034.7	2019.3
15°	6513.0	5803.8	4224.3	2809.0	2136.9	1957.3	1957.3	1963.5	2006.9	2013.1	2010.0
17.5°	6506.8	5664.5	3716.4	2313.5	1889.2	1864.4	1873.7	1932.5	1960.4	1969.7	1948.0
20°	6581.2	5534.4	3193.0	1975.9	1749.8	1787.0	1848.9	1864.4	1898.5	1904.7	1879.9
22.5°	6559.5	5209.2	2706.8	1709.6	1644.5	1715.8	1777.7	1796.3	1787.0	1768.4	1765.3
25°	6519.2	4930.5	2260.8	1533.0	1567.1	1644.5	1703.4	1669.3	1650.7	1653.8	1656.9
27.5°	6448.0	4577.4	1892.3	1409.1	1461.8	1576.4	1573.3	1560.9	1579.5	1564.0	1579.5
30°	6435.6	4224.3	1588.8	1297.7	1384.4	1468.0	1474.2	1495.9	1517.5	1489.7	1517.5
32.5°	6454.2	3837.2	1372.0	1229.5	1337.9	1341.0	1409.1	1430.8	1415.3	1353.4	1359.6
35°	6596.7	3539.9	1214.0	1192.4	1263.6	1266.7	1331.7	1303.8	1235.7	1198.5	1220.2
37.5°	6897.1	3292.1	1139.7	1158.3	1164.5	1204.7	1207.8	1152.1	1158.3	1155.2	1167.6
40°	7281.1	3103.2	1087.1	1127.3	1121.1	1149.0	1037.5	1068.5	1096.3	1105.6	1111.8
42.5°	7544.3	2966.9	1053.0	1077.8	1065.4	1015.8	953.9	984.9	1006.5	1040.6	1046.8
45°	7662.0	2858.6	1012.7	991.0	991.0	901.2	876.5	882.7	932.2	969.4	963.2
47.5°	7470.0	2753.3	941.5	876.5	898.1	823.8	795.9	795.9	848.6	895.0	885.7
48°	7395.7	2709.9	944.6	851.7	867.2	811.4	783.5	777.4	836.2	879.6	879.6
50°	7027.1	2548.9	864.1	783.5	752.6	746.4	727.8	734.0	771.2	811.4	811.4
52.5°	6308.6	2202.0	730.9	672.1	616.3	653.5	662.8	650.4	669.0	706.1	703.0
55°	5264.9	1691.0	585.3	557.5	514.1	554.4	572.9	557.5	538.9	566.8	566.8
57.5°	3372.7	910.5	467.7	473.8	430.5	470.7	486.2	449.1	415.0	436.7	433.6
60°	1520.6	545.1	384.0	374.7	346.9	393.3	418.1	374.7	328.3	343.8	359.3
62.5°	569.9	387.1	291.1	284.9	278.7	322.1	334.5	300.4	254.0	263.2	266.3
65°	418.1	340.7	232.3	210.6	223.0	254.0	247.8	213.7	182.7	182.7	188.9
67.5°	356.2	297.3	188.9	164.1	164.1	167.2	154.9	136.3	127.0	133.2	139.4
70°	278.7	235.4	148.7	127.0	114.6	102.2	89.8	86.7	77.4	86.7	83.6
72.5°	179.6	157.9	114.6	96.0	86.7	71.2	58.8	55.7	46.5	43.4	43.4
75°	96.0	96.0	89.8	77.4	68.1	55.7	46.5	37.2	24.8	18.6	18.6
77.5°	68.1	74.3	80.5	74.3	61.9	46.5	37.2	24.8	12.4	6.2	6.2
80°	65.0	74.3	80.5	71.2	61.9	46.5	34.1	18.6	9.3	3.1	3.1
82.5°	58.8	68.1	74.3	65.0	55.7	40.3	31.0	18.6	9.3	3.1	3.1
85°	12.4	15.5	18.6	18.6	21.7	27.9	21.7	15.5	6.2	3.1	3.1
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	6.2	6.2	3.1	3.1	3.1
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)