

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: P529713

Luminaire Tested: **GALN-SA4D-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13131 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

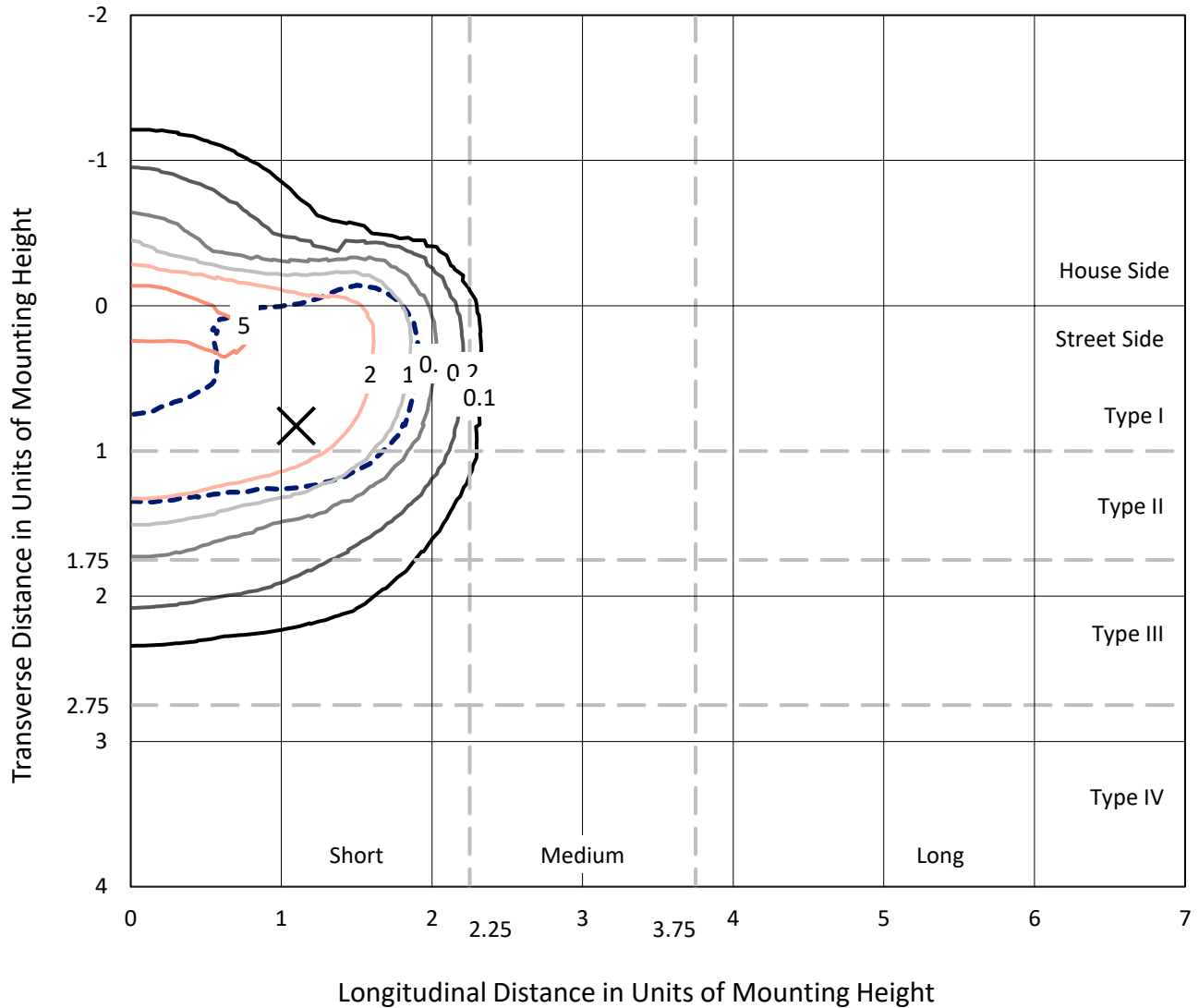
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

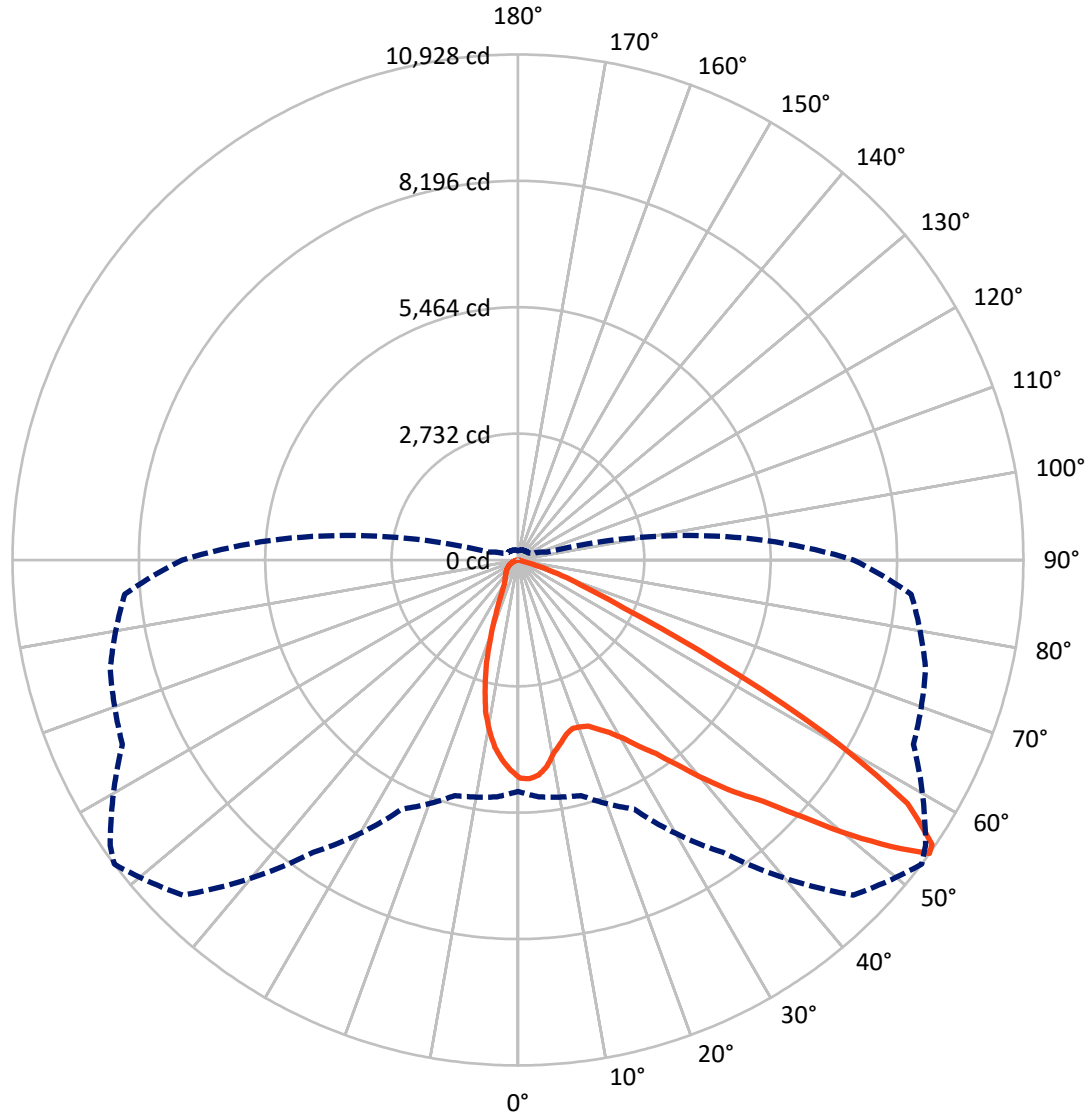
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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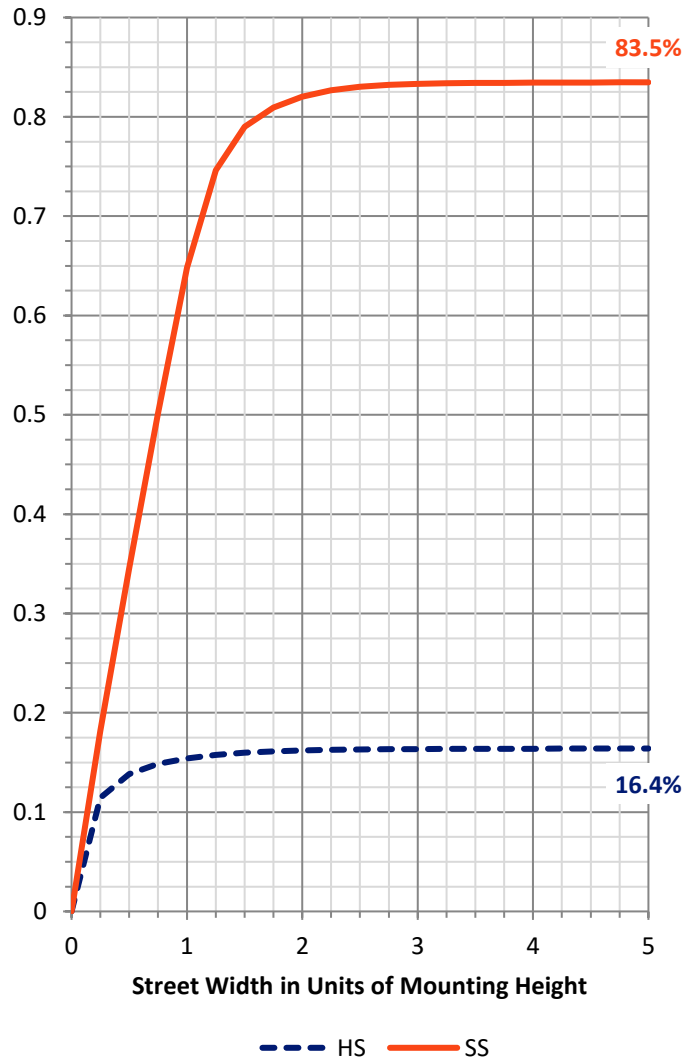
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2172.5	0.0	2172.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10958.4	0.0	10958.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	13131.0	0.0	13131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.7	3.1
10°-20°	927.8	7.1
20°-30°	1318.5	10.0
30°-40°	2034.9	15.5
40°-50°	3190.5	24.3
50°-60°	3706.2	28.2
60°-70°	1400.4	10.7
70°-80°	133.2	1.0
80°-90°	15.0	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°	13131.0	100.0
0°-180°	13131.0	100.0

Coefficient of Utilization



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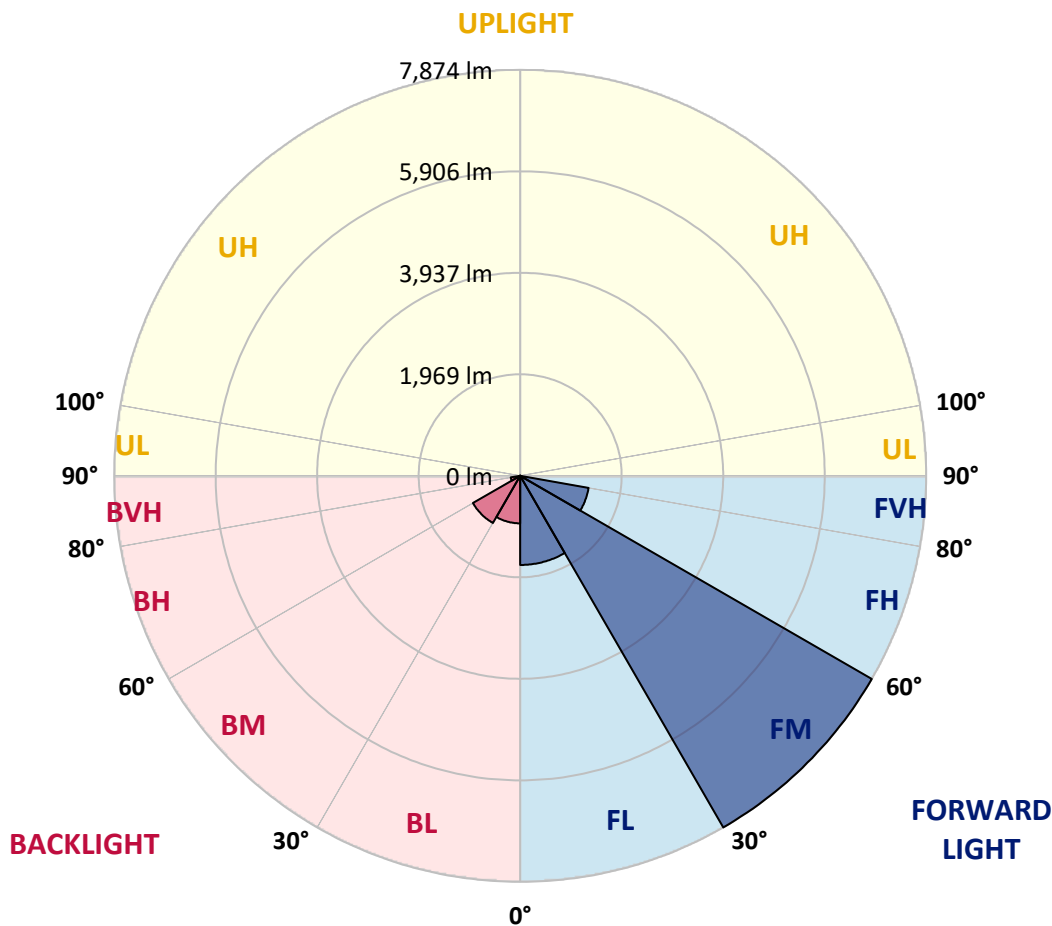
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1729.0	13.2			
FM (30°-60°)	7874.2	60.0			
FH (60°-80°)	1347.4	10.3			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	921.9	7.0	B2/1000		
BM (30°-60°)	1057.2	8.1	B2/2500		
BH (60°-80°)	186.1	1.4	B1/500		G1/500
BVH (80°-90°)	7.2	0.1			G0/10
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°	53°	55°	65°	75°	85°
0°	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4
2.5°	4692.0	4650.4	4692.0	4696.9	4726.2	4753.1	4736.0	4775.1	4753.1	4728.7	4721.3
5°	4312.8	4369.1	4371.5	4459.6	4440.0	4601.5	4672.4	4652.8	4772.7	4765.4	4748.2
7.5°	3972.8	3950.7	3980.1	4082.8	4212.5	4398.4	4501.2	4498.7	4670.0	4792.3	4780.0
10°	3657.2	3654.7	3715.9	3796.6	3906.7	4102.4	4244.3	4315.2	4581.9	4767.8	4794.7
12.5°	3444.4	3434.6	3500.6	3566.7	3740.4	3892.0	4073.1	4107.3	4413.1	4682.2	4726.2
15°	3304.9	3326.9	3331.8	3459.0	3569.1	3769.7	3911.6	3982.5	4334.8	4613.7	4782.5
17.5°	3280.5	3309.8	3312.3	3417.5	3534.9	3703.7	3828.4	3923.8	4268.8	4647.9	4784.9
20°	3329.4	3312.3	3326.9	3393.0	3508.0	3669.4	3850.4	3882.3	4246.7	4665.1	4811.8
22.5°	3468.8	3463.9	3427.2	3481.1	3561.8	3730.6	3901.8	3950.7	4310.4	4753.1	4833.9
25°	3622.9	3649.9	3615.6	3608.3	3664.5	3830.9	4058.4	4122.0	4523.2	4912.1	4902.4
27.5°	3911.6	3884.7	3884.7	3850.4	3835.8	3916.5	4227.2	4332.4	4760.5	5117.6	4980.6
30°	4188.0	4217.4	4195.4	4207.6	4109.8	4102.4	4466.9	4596.6	5181.2	5430.7	5147.0
32.5°	4625.9	4586.8	4623.5	4591.7	4462.0	4329.9	4792.3	4926.8	5690.1	5790.4	5396.5
35°	4990.4	4973.3	5129.9	5125.0	4914.6	4784.9	5137.2	5337.8	6044.8	6220.9	5690.1
37.5°	5509.0	5477.2	5655.8	5741.4	5553.1	5359.8	5631.3	5863.7	6375.0	6565.8	5990.9
40°	6042.3	6123.0	6362.8	6504.7	6304.1	6047.2	6235.6	6306.5	6595.2	6790.9	6196.4
42.5°	6717.5	6834.9	7079.5	7201.9	7184.7	6905.9	6849.6	6847.1	6754.2	6727.3	6348.1
45°	7365.8	7321.7	7698.5	7965.1	8180.4	8099.6	7441.6	7368.2	7006.2	6822.7	6387.2
47.5°	7649.5	7634.8	7891.7	8366.3	9100.2	9200.5	8302.7	8018.9	7431.8	7223.9	6600.1
50°	7282.6	7358.4	7612.8	8138.8	9264.1	10029.8	9359.5	8977.9	7928.4	7713.1	7104.0
52.5°	6083.9	6135.3	6377.5	7045.3	8706.3	10519.0	10372.2	10152.1	8840.9	8483.7	7982.2
54°	5002.6	5139.6	5271.7	5942.0	7713.1	10247.5	10927.5	10758.8	9435.3	9124.6	8535.1
55°	4356.8	4437.6	4533.0	5200.8	7025.7	9787.6	10863.9	10878.6	9834.1	9325.2	8906.9
57.5°	3182.6	3238.9	3141.0	3437.0	4824.1	7948.0	9936.8	10333.1	10372.2	9626.1	9134.4
60°	2431.6	2456.1	2346.0	2392.5	2999.1	5455.2	7686.2	8163.2	9357.0	8412.8	7737.6
62.5°	1886.1	1891.0	1888.5	1969.3	2067.1	3209.5	4806.9	5230.2	6450.8	5973.8	5254.6
65°	1389.5	1367.5	1406.6	1651.2	1763.8	2018.2	2531.9	2840.1	3505.5	2960.0	2116.0
67.5°	900.2	907.6	946.7	1228.0	1511.8	1548.5	1558.3	1533.8	1536.3	846.4	530.8
70°	540.6	552.9	540.6	694.7	1081.3	1110.6	1015.2	990.7	773.0	200.6	198.1
72.5°	320.5	303.3	271.5	298.4	450.1	538.2	484.4	481.9	303.3	117.4	117.4
75°	134.5	122.3	100.3	90.5	119.9	115.0	115.0	102.7	80.7	78.3	73.4
77.5°	26.9	26.9	19.6	22.0	29.4	34.2	41.6	41.6	48.9	48.9	46.5
80°	0.0	2.4	7.3	14.7	22.0	31.8	36.7	36.7	41.6	41.6	34.2
82.5°	0.0	2.4	7.3	14.7	19.6	29.4	36.7	36.7	41.6	44.0	36.7
85°	0.0	2.4	7.3	12.2	19.6	24.5	24.5	22.0	17.1	14.7	9.8
87.5°	0.0	0.0	2.4	4.9	2.4	4.9	4.9	4.9	4.9	4.9	4.9
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°	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4	4716.4
2.5°	4738.5	4736.0	4677.3	4581.9	4559.9	4479.1	4469.4	4420.4	4447.3	4356.8	4347.0
5°	4699.3	4670.0	4599.0	4537.9	4359.3	4232.1	4131.8	4009.5	3938.5	3950.7	3904.3
7.5°	4755.6	4679.7	4555.0	4342.2	4124.4	3901.8	3782.0	3532.4	3441.9	3307.4	3287.8
10°	4696.9	4640.6	4447.3	4095.1	3794.2	3473.7	3192.4	2916.0	2705.6	2615.1	2595.5
12.5°	4692.0	4594.1	4271.2	3879.8	3444.4	2984.5	2575.9	2231.0	2023.1	1905.7	1878.7
15°	4616.1	4498.7	4073.1	3547.1	2945.3	2372.9	1927.7	1595.0	1436.0	1367.5	1387.0
17.5°	4623.5	4447.3	3874.9	3194.8	2453.6	1741.8	1316.1	1144.9	1103.3	1120.4	1120.4
20°	4616.1	4332.4	3635.2	2788.8	1878.7	1208.5	966.3	905.1	932.0	985.9	973.6
22.5°	4577.0	4278.5	3415.0	2360.7	1382.1	895.3	775.5	777.9	819.5	885.6	900.2
25°	4606.4	4158.7	3136.1	1927.7	1007.9	714.3	672.7	689.9	733.9	782.8	792.6
27.5°	4584.3	4073.1	2845.0	1497.1	736.3	614.0	611.6	631.1	650.7	687.4	687.4
30°	4608.8	3994.8	2558.8	1113.1	606.7	562.6	552.9	567.5	587.1	594.4	592.0
32.5°	4699.3	3936.1	2228.6	831.7	535.7	513.7	513.7	513.7	511.3	521.1	523.5
35°	4897.5	3945.9	1937.5	643.4	489.3	472.1	464.8	455.0	450.1	455.0	457.5
37.5°	5112.7	3941.0	1636.6	548.0	455.0	440.3	423.2	408.5	406.1	411.0	403.6
40°	5208.1	3987.4	1357.7	491.7	423.2	406.1	379.2	366.9	369.4	374.3	369.4
42.5°	5337.8	4002.1	1176.7	447.7	393.9	366.9	349.8	335.1	332.7	340.0	337.6
45°	5335.3	3918.9	985.9	423.2	366.9	337.6	315.6	303.3	303.3	308.2	310.7
47.5°	5491.9	3906.7	846.4	401.2	347.4	318.0	291.1	281.3	278.9	278.9	274.0
50°	5856.4	4078.0	738.8	376.7	322.9	296.0	274.0	261.8	252.0	247.1	244.6
52.5°	6568.3	4611.2	655.6	347.4	296.0	274.0	254.4	244.6	232.4	220.2	217.7
54°	7258.1	5161.7	650.7	322.9	274.0	259.3	242.2	237.3	222.6	205.5	200.6
55°	7568.8	5482.1	667.8	303.3	259.3	249.5	234.8	230.0	215.3	195.7	193.3
57.5°	7825.7	5606.9	658.1	252.0	234.8	232.4	220.2	212.8	195.7	168.8	163.9
60°	6299.2	4239.4	472.1	222.6	215.3	210.4	200.6	195.7	173.7	144.3	141.9
62.5°	3980.1	2438.9	300.9	195.7	188.4	181.0	168.8	163.9	144.3	115.0	107.6
65°	1695.3	1010.3	203.0	173.7	161.5	149.2	139.4	132.1	115.0	85.6	83.2
67.5°	440.3	359.6	168.8	151.7	134.5	117.4	110.1	97.9	78.3	58.7	56.3
70°	198.1	181.0	141.9	127.2	107.6	90.5	80.7	68.5	51.4	39.1	36.7
72.5°	117.4	115.0	107.6	95.4	80.7	68.5	58.7	46.5	34.2	22.0	22.0
75°	73.4	70.9	73.4	66.0	56.3	51.4	44.0	31.8	19.6	9.8	9.8
77.5°	44.0	44.0	44.0	41.6	39.1	39.1	31.8	19.6	9.8	2.4	2.4
80°	34.2	34.2	36.7	34.2	34.2	34.2	26.9	14.7	4.9	0.0	0.0
82.5°	34.2	36.7	41.6	39.1	34.2	29.4	24.5	14.7	4.9	0.0	0.0
85°	9.8	7.3	12.2	17.1	24.5	22.0	17.1	12.2	4.9	0.0	0.0
87.5°	4.9	4.9	4.9	4.9	2.4	2.4	2.4	2.4	2.4	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)