

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: P269216

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-AFL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17291.7 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 171
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: 25 FT

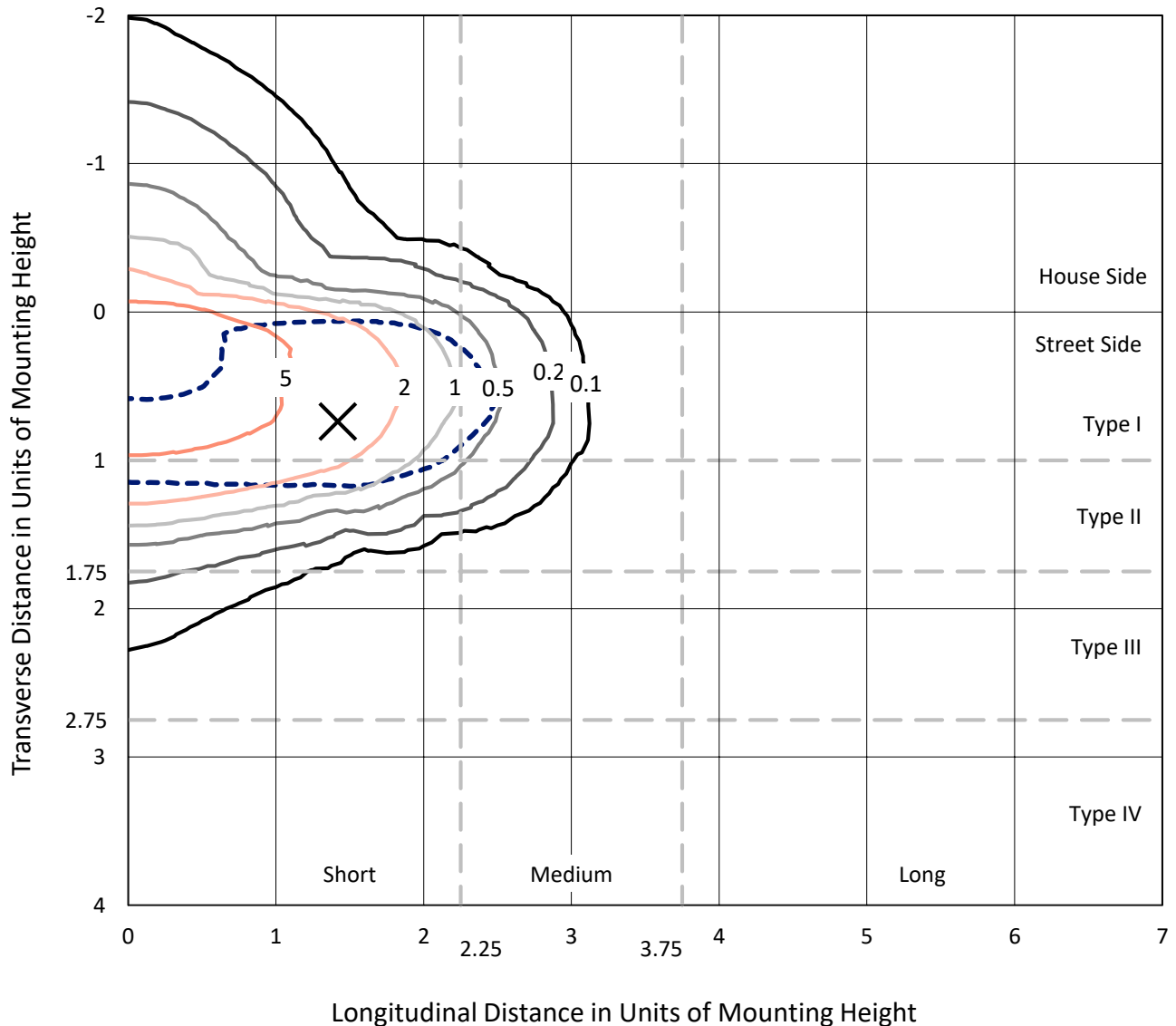


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Iso-Footcandle Lines of Horizontal Illumination

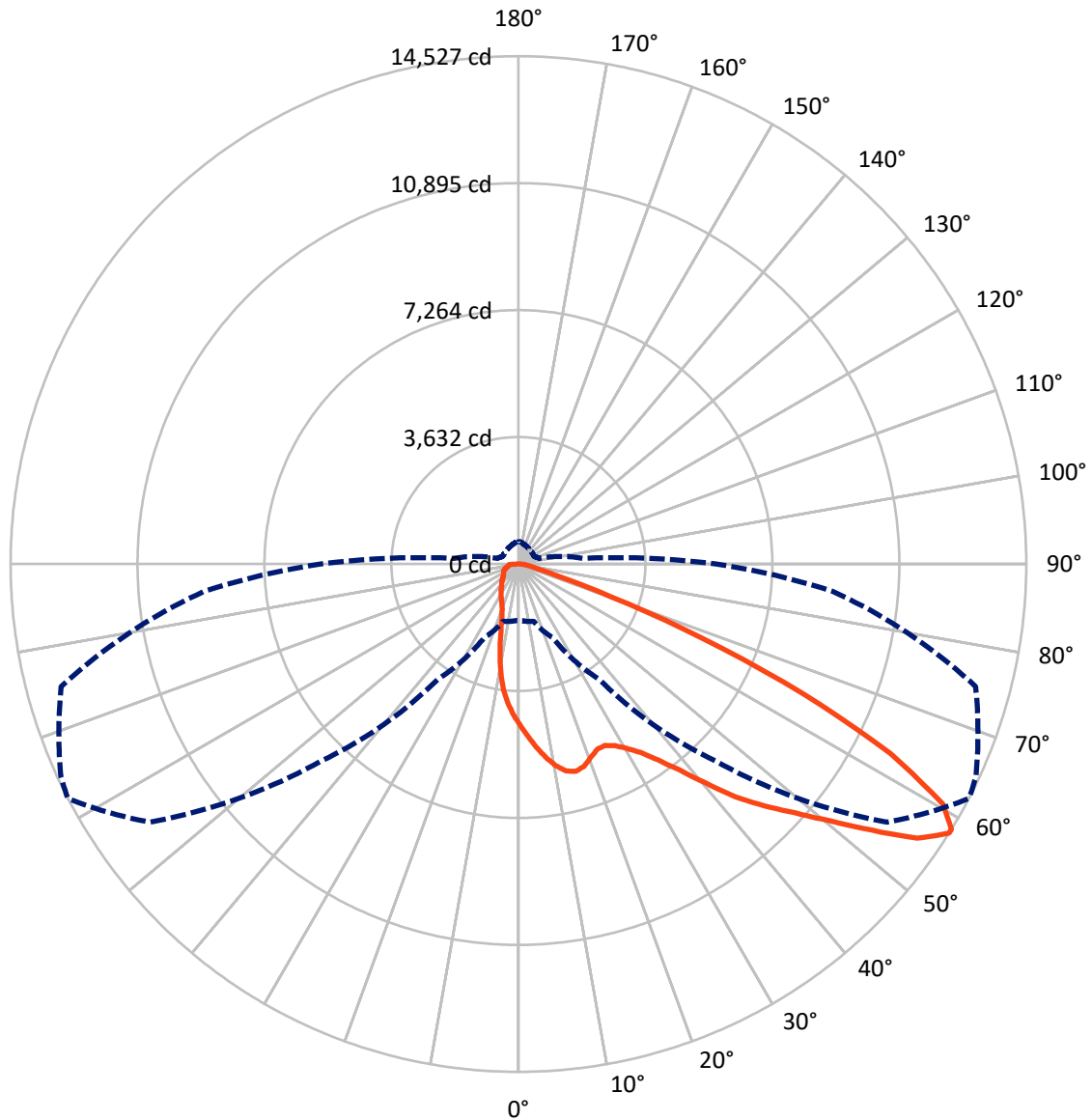
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2637.1	0.0	2637.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14654.7	0.0	14654.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	17291.7	0.0	17291.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.8	2.4
10°-20°	1050.1	6.1
20°-30°	1697.4	9.8
30°-40°	2694.7	15.6
40°-50°	3942.9	22.8
50°-60°	4123.9	23.8
60°-70°	2436.4	14.1
70°-80°	686.3	4.0
80°-90°	249.2	1.4
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°	17291.7	100.0
0°-180°	17291.7	100.0



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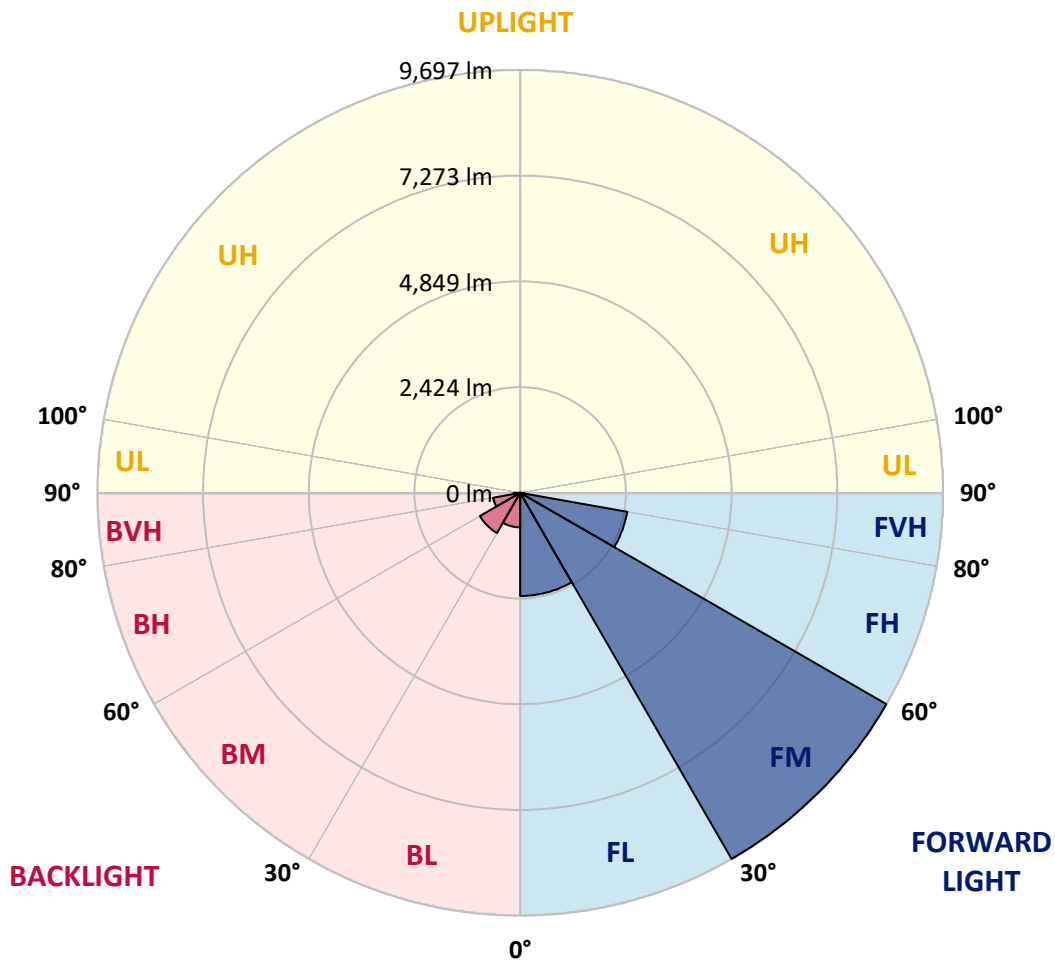
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2365.7	13.7			
FM	(30°-60°)	9697.1	56.1			
FH	(60°-80°)	2493.5	14.4			G2/5000
FVH	(80°-90°)	98.3	0.6			G1/100
BL	(0°-30°)	792.6	4.6	B2/1000		
BM	(30°-60°)	1064.4	6.2	B2/2500		
BH	(60°-80°)	629.2	3.6	B2/1000		G2/1000
BVH	(80°-90°)	150.9	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3
2.5°	5248.6	5206.3	5179.4	5155.8	5124.9	5059.0	4970.2	4914.0	4885.5	4788.7	4673.8
5°	5763.3	5725.8	5698.2	5666.4	5611.1	5507.6	5364.3	5250.4	5194.1	5000.3	4770.7
7.5°	5642.8	5658.2	5706.3	5790.1	5861.8	5848.0	5720.1	5575.2	5501.1	5231.5	4883.0
10°	4916.5	4943.4	5026.3	5222.7	5540.1	5865.9	5965.3	5865.0	5790.1	5460.3	4998.7
12.5°	4770.7	4769.9	4776.4	4828.5	5017.5	5475.9	5973.4	6074.2	6029.6	5678.5	5116.7
15°	4830.1	4831.8	4827.0	4849.0	4907.5	5089.1	5724.2	6154.9	6186.6	5898.5	5238.8
17.5°	4986.5	4982.4	4963.7	4963.7	4984.9	5055.8	5431.1	6080.0	6226.6	6093.1	5346.4
20°	5248.6	5229.9	5180.3	5134.7	5111.9	5150.2	5310.6	5907.4	6157.4	6263.3	5435.1
22.5°	5566.3	5551.5	5470.9	5373.2	5294.3	5293.4	5372.5	5756.8	6037.7	6423.6	5510.1
25°	5976.7	5953.0	5833.4	5677.0	5538.5	5485.6	5507.6	5749.4	5972.6	6598.0	5576.8
27.5°	6458.6	6415.4	6273.9	6048.3	5844.7	5738.1	5706.3	5882.1	6031.9	6813.6	5669.7
30°	7043.3	6993.7	6812.0	6518.1	6230.6	6055.7	5988.0	6117.5	6229.0	7076.7	5818.6
32.5°	7708.5	7636.9	7426.7	7102.7	6724.9	6457.8	6348.0	6428.5	6517.3	7393.4	6005.1
35°	8627.9	8542.3	8238.6	7791.5	7364.9	6997.6	6821.8	6880.5	6966.7	7865.6	6274.7
37.5°	9254.8	9216.5	9014.6	8594.4	8130.3	7707.6	7435.8	7469.9	7518.9	8456.0	6619.9
40°	9249.0	9264.6	9268.6	9272.8	8956.8	8552.1	8259.7	8224.0	8214.2	9104.1	7012.3
42.5°	8785.9	8849.4	9054.5	9470.7	9662.8	9477.1	9209.2	9105.8	9054.5	9867.9	7428.4
45°	8076.7	8110.7	8495.1	9307.7	10024.2	10393.1	10190.4	9864.6	9771.9	10569.7	7773.7
47.5°	7711.1	7748.4	7990.2	8876.2	10020.2	11133.2	11250.6	10630.1	10463.9	11180.6	8071.7
50°	6840.6	6918.7	7223.2	8125.3	9654.7	11473.6	12358.7	11542.1	11198.5	11775.0	8370.5
52.5°	5242.1	5362.6	5703.9	6891.0	8727.2	11305.1	13245.5	12647.7	12162.5	12390.5	8627.1
55°	3306.8	3396.2	3683.0	4866.7	6981.4	10428.2	13581.7	13843.9	13412.4	12973.5	8849.4
57.5°	1797.9	1837.8	1945.3	2687.0	4541.1	8489.4	13091.5	14524.7	14345.6	13468.6	9017.0
58°	1609.0	1635.9	1702.6	2328.8	4027.3	7959.3	12874.1	14527.1	14437.5	13541.1	9030.0
60°	1193.7	1179.8	1120.5	1328.9	2241.6	5498.6	11560.0	13945.6	14208.8	13629.8	8966.5
62.5°	1048.7	1015.4	894.1	880.2	1090.4	2533.1	8845.3	11945.9	12567.2	13123.2	8580.6
65°	985.3	949.4	793.1	742.5	786.6	1071.6	5210.3	8959.2	9738.4	11587.6	7593.7
67.5°	938.0	891.6	728.7	659.5	662.8	708.5	2088.6	5642.8	6519.7	8798.0	5906.5
70°	892.5	841.9	674.2	594.4	575.6	560.3	830.6	2824.6	3620.2	5557.3	3766.0
72.5°	843.6	793.9	626.2	543.1	506.5	455.3	542.2	1155.4	1613.8	2629.2	1708.2
75°	772.7	727.9	578.1	497.5	445.4	377.0	409.5	603.3	723.9	1047.2	823.1
77.5°	685.5	648.9	524.4	460.0	395.0	306.1	315.1	418.5	464.2	599.3	489.3
80°	492.6	505.7	466.6	413.6	351.7	248.3	241.9	305.3	329.8	385.2	318.4
82.5°	346.0	353.5	385.9	337.9	290.7	195.4	178.4	215.0	229.6	253.2	171.8
85°	238.6	230.4	264.6	235.4	210.1	130.3	122.1	145.7	154.7	157.2	88.8
87.5°	143.3	143.3	153.2	126.2	113.1	67.6	65.9	83.1	88.8	84.7	48.9
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°	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3
2.5°	4605.4	4547.6	4424.6	4326.1	4201.6	4072.0	3999.7	3922.3	3869.3	3831.0	3892.1
5°	4640.5	4522.3	4268.2	4027.3	3761.1	3484.2	3274.1	3078.8	2942.7	2858.0	2937.8
7.5°	4695.8	4514.3	4109.6	3697.6	3219.5	2758.7	2346.7	2088.6	1938.0	1863.9	1910.2
10°	4759.3	4501.1	3923.1	3250.4	2566.5	1986.0	1678.2	1573.9	1539.8	1526.0	1532.4
12.5°	4812.2	4473.5	3694.3	2709.8	1927.4	1568.3	1479.5	1477.1	1484.4	1485.9	1488.4
15°	4849.7	4432.7	3354.7	2146.4	1541.4	1429.1	1424.2	1438.7	1452.6	1458.3	1461.6
17.5°	4874.9	4349.0	2971.2	1696.9	1381.0	1361.4	1372.8	1391.6	1406.1	1410.2	1413.6
20°	4872.4	4225.9	2514.4	1415.2	1293.9	1293.9	1313.4	1328.1	1328.9	1324.0	1326.3
22.5°	4847.3	4057.5	2071.4	1265.4	1216.5	1230.3	1249.9	1236.1	1179.0	1141.6	1144.0
25°	4804.9	3856.3	1692.0	1170.1	1144.8	1169.2	1163.6	1059.3	978.0	941.2	941.2
27.5°	4767.5	3618.6	1400.5	1086.9	1073.1	1103.3	1002.4	907.8	873.7	856.7	850.9
30°	4740.5	3362.0	1206.0	1007.2	1005.7	983.6	869.6	843.6	837.8	824.0	819.2
32.5°	4747.2	3102.2	1081.3	937.2	943.0	841.9	806.0	811.8	806.9	792.2	785.7
35°	4800.8	2855.6	1000.0	873.7	856.7	760.5	768.7	779.2	777.7	757.2	750.8
37.5°	4896.9	2622.0	946.2	820.8	747.5	719.8	732.8	749.0	745.1	731.2	726.3
40°	4997.9	2402.1	902.2	779.2	683.2	692.1	703.6	712.4	716.6	720.6	717.3
42.5°	5096.4	2172.5	848.4	736.9	656.3	666.1	670.9	679.8	701.8	717.3	716.6
45°	5155.1	1956.7	793.1	676.7	635.1	640.9	637.5	655.5	682.4	707.5	708.5
47.5°	5220.2	1789.0	749.0	621.3	614.8	618.8	609.1	626.9	651.5	682.4	685.5
50°	5299.1	1688.8	714.2	577.3	587.1	587.1	584.6	601.0	635.1	670.9	677.4
52.5°	5388.8	1669.2	684.8	545.5	559.4	558.6	561.0	585.4	623.0	657.9	663.6
55°	5497.8	1722.1	653.1	521.9	532.5	535.7	544.0	571.6	603.3	643.2	645.7
57.5°	5624.8	1829.6	627.7	503.2	508.1	518.7	531.6	556.9	591.2	635.1	637.5
58°	5646.0	1852.5	623.8	501.6	503.2	515.4	530.1	554.6	588.7	636.8	639.1
60°	5646.8	1928.1	614.8	494.2	484.5	504.8	521.1	545.5	584.6	642.5	648.1
62.5°	5446.6	1927.4	608.2	483.6	465.0	490.1	508.9	537.4	580.6	656.3	667.7
65°	4796.0	1751.4	577.3	467.4	449.4	477.2	498.3	531.6	592.0	716.6	723.9
67.5°	3751.2	1435.5	519.5	444.7	429.1	464.2	491.8	530.9	604.2	730.4	735.3
70°	2480.2	1074.1	456.0	418.5	407.9	448.7	495.1	558.6	590.4	701.0	688.0
72.5°	1287.4	753.9	404.6	385.9	383.4	434.8	542.2	555.3	576.5	659.5	643.2
75°	675.9	523.5	360.0	350.1	354.2	431.5	640.0	540.7	558.6	631.1	662.1
77.5°	413.6	422.7	321.7	317.6	325.6	421.8	639.1	521.9	532.5	580.6	614.8
80°	276.9	342.9	292.3	293.1	298.9	385.9	574.0	492.6	500.7	548.9	583.8
82.5°	175.1	202.7	265.4	279.4	271.9	318.4	487.7	448.7	460.0	627.7	663.6
85°	88.8	127.0	230.4	268.8	245.1	223.0	395.8	393.3	398.9	452.7	473.0
87.5°	40.8	70.0	179.9	234.5	184.8	139.2	287.5	291.5	314.2	321.7	321.7
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)