

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: P193634

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL2-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28460 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

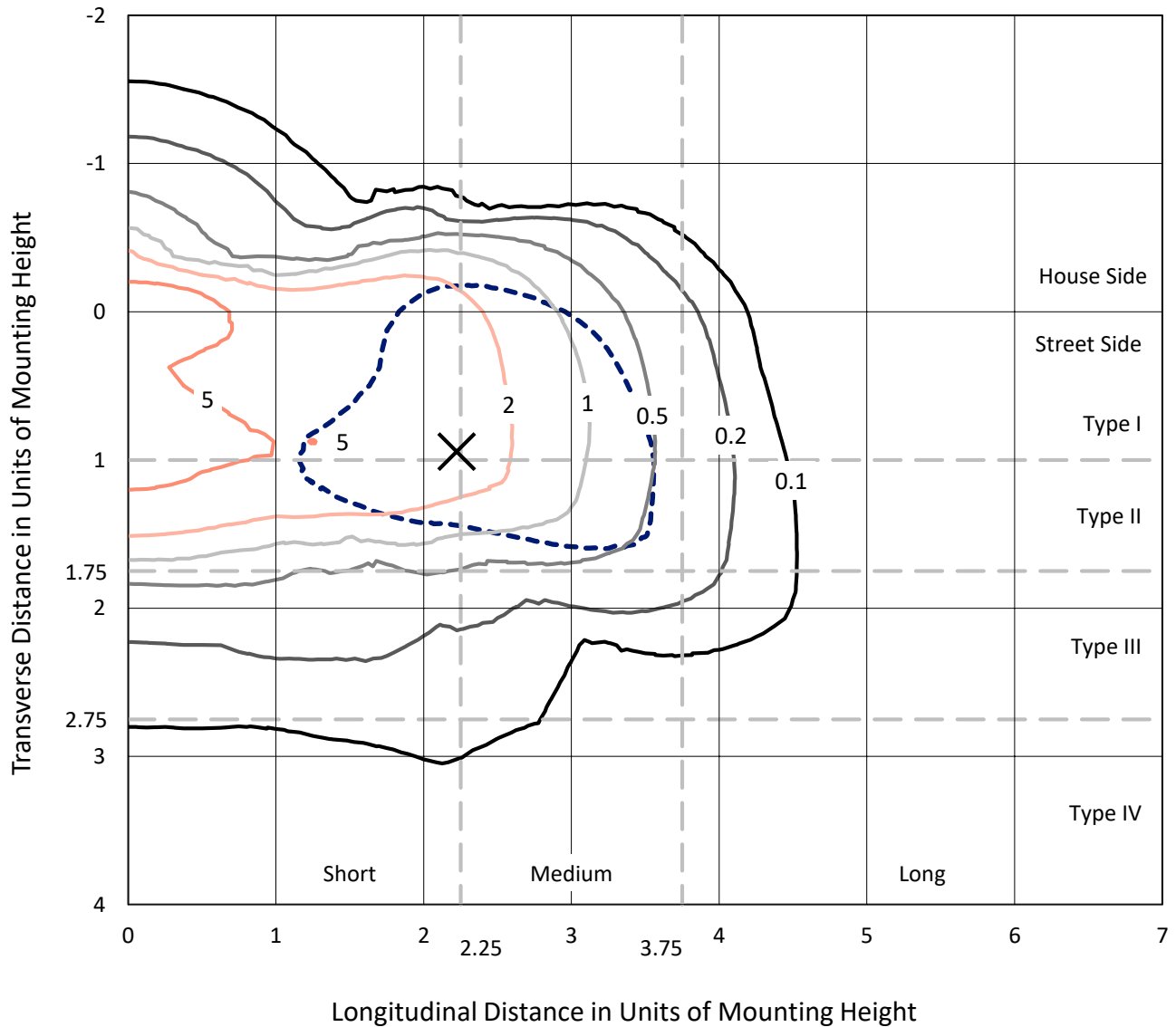
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

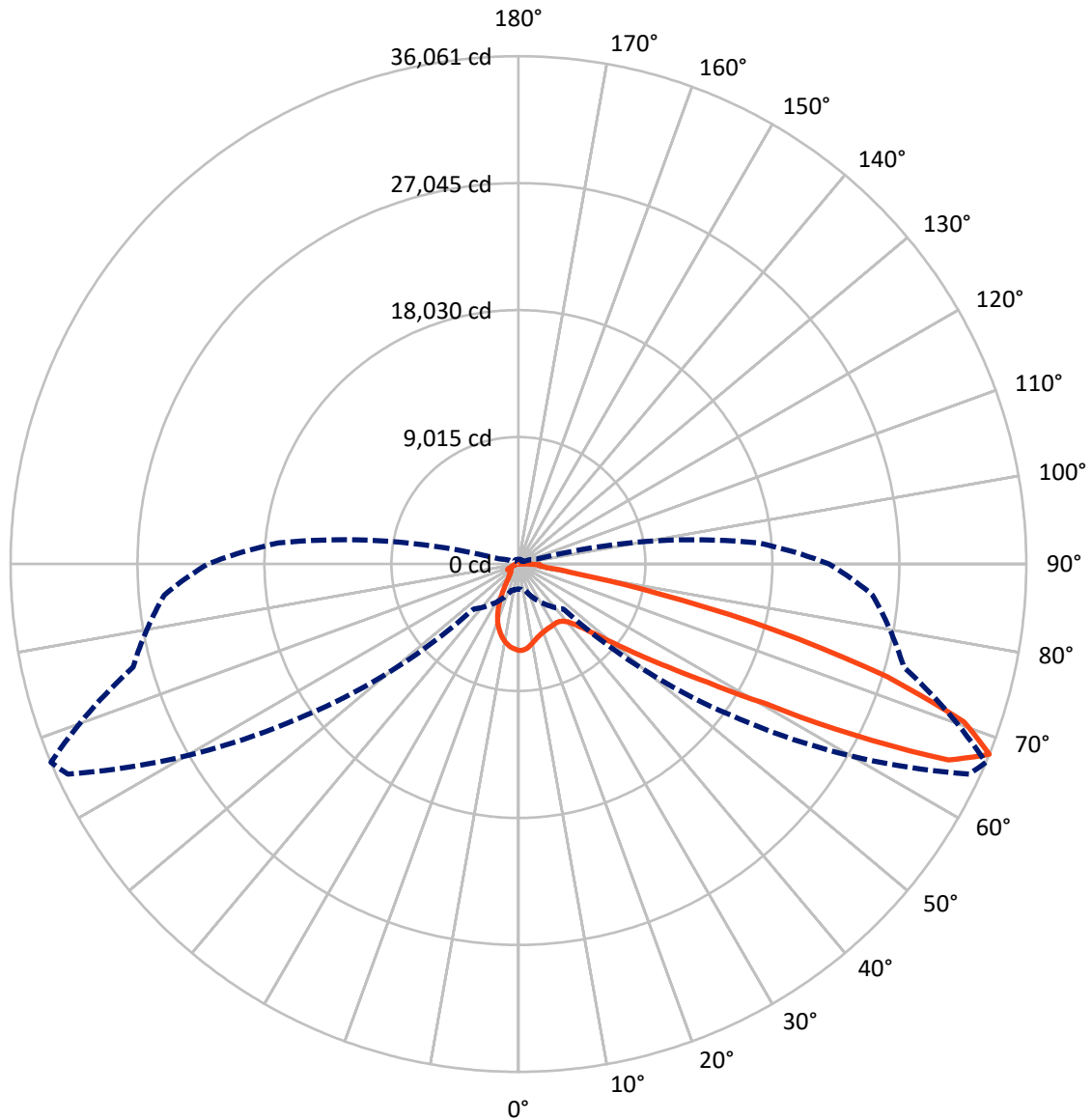
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4715.5	0.0	4715.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	23744.5	0.0	23744.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	28460.0	0.0	28460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.7	1.8
10°-20°	1211.8	4.3
20°-30°	1642.7	5.8
30°-40°	2335.2	8.2
40°-50°	3906.9	13.7
50°-60°	6180.6	21.7
60°-70°	7873.5	27.7
70°-80°	4124.1	14.5
80°-90°	661.4	2.3
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°	28460.0	100.0
0°-180°	28460.0	100.0

Coefficient of Utilization



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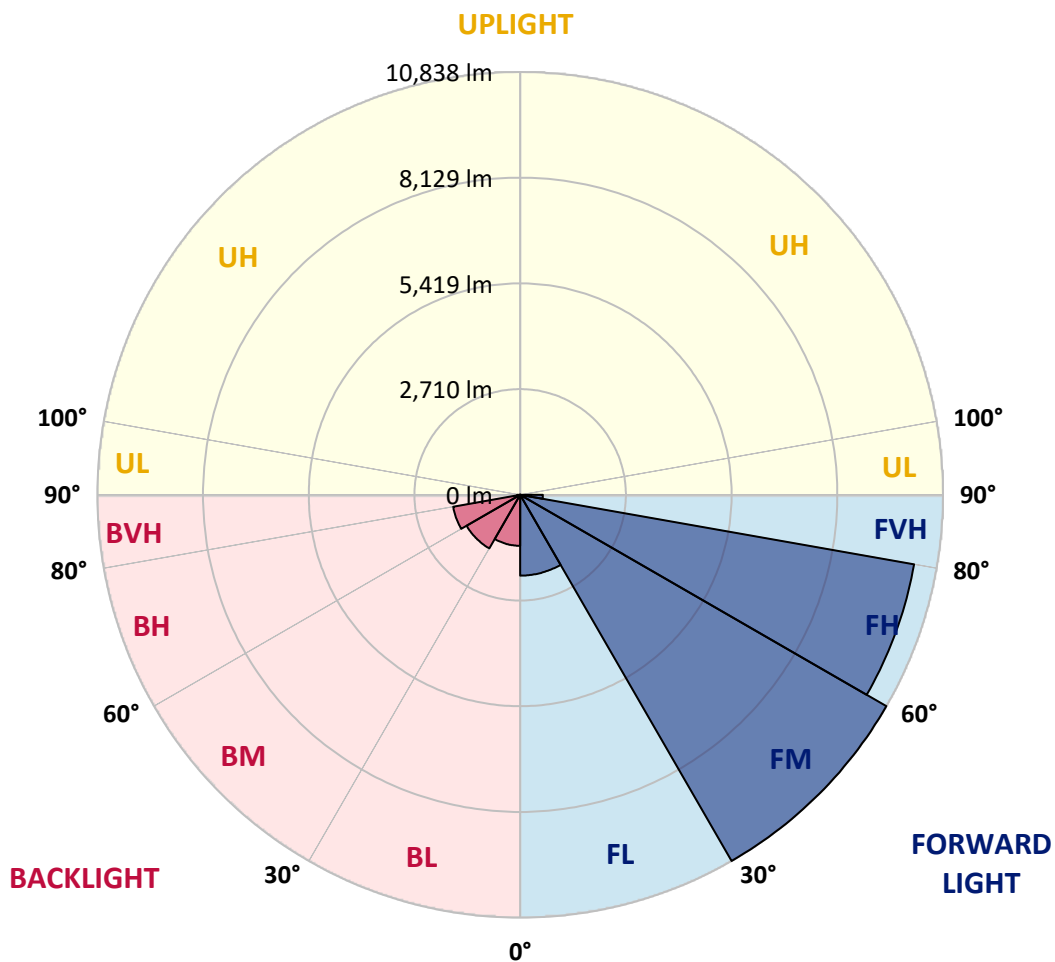
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2071.2	7.3			
FM (30°-60°)	10838.2	38.1			
FH (60°-80°)	10253.5	36.0			G4/12000
FVH (80°-90°)	581.6	2.0			G4/750
BL (0°-30°)	1307.0	4.6	B3/2500		
BM (30°-60°)	1584.6	5.6	B2/2500		
BH (60°-80°)	1744.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	79.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8
2.5°	5886.1	5896.0	5926.8	5946.5	6034.9	6072.8	6099.5	6126.1	6130.3	6143.0	6130.3
5°	5268.6	5289.7	5347.2	5411.8	5583.0	5717.7	5859.5	6006.8	6033.5	6128.9	6155.6
7.5°	4790.0	4784.4	4832.1	4909.3	5084.8	5271.4	5519.8	5813.1	5870.7	6085.4	6189.3
10°	4440.6	4436.4	4486.9	4566.9	4733.9	4910.7	5191.4	5592.8	5674.2	6016.7	6221.6
12.5°	4182.3	4183.7	4234.3	4322.7	4492.5	4670.7	4955.6	5379.5	5483.3	5936.7	6255.2
15°	4011.1	4022.3	4063.0	4157.1	4322.7	4500.9	4780.2	5219.5	5336.0	5873.5	6293.1
17.5°	3953.6	3971.8	3985.8	4054.6	4196.4	4374.6	4648.3	5101.6	5225.1	5830.0	6326.8
20°	4006.9	4027.9	4001.3	4025.1	4115.0	4272.1	4544.4	5009.0	5135.3	5780.9	6331.0
22.5°	4235.7	4255.3	4176.7	4107.9	4102.3	4197.8	4458.8	4936.0	5066.5	5744.4	6332.4
25°	4638.4	4651.1	4519.2	4359.2	4203.4	4171.1	4398.5	4885.5	5024.4	5712.1	6305.8
27.5°	5132.5	5142.3	4990.7	4754.9	4442.0	4234.3	4377.4	4856.0	5000.5	5684.0	6260.9
30°	5733.2	5779.5	5576.0	5278.4	4822.3	4420.9	4419.5	4840.5	4973.9	5636.3	6172.4
32.5°	6347.9	6367.5	6227.2	5925.4	5334.6	4749.3	4537.4	4851.8	4966.9	5578.8	6060.2
35°	6971.0	6996.3	6905.0	6662.2	6034.9	5230.7	4767.6	4917.7	5010.4	5559.1	5981.6
37.5°	7778.0	7811.7	7685.4	7404.7	6886.8	5883.3	5150.7	5083.3	5143.7	5615.3	5957.7
40°	9053.7	9038.3	8669.2	8251.0	7818.7	6718.4	5698.1	5364.0	5399.1	5796.3	6030.7
42.5°	10538.6	10500.7	9864.9	9208.1	8843.2	7728.9	6422.3	5851.0	5844.0	6152.8	6287.5
45°	11723.1	11692.3	11119.6	10309.8	10017.9	8879.7	7358.4	6576.6	6524.7	6718.4	6761.9
47.5°	12364.5	12365.9	12036.1	11375.1	11368.1	10342.1	8561.1	7626.4	7536.6	7627.8	7581.5
50°	12140.0	12169.4	12134.4	11923.8	12600.3	12259.3	10131.6	9090.2	8909.2	8999.0	8820.8
52.5°	11053.7	11091.6	11299.3	11622.1	13118.2	14576.4	12438.9	10909.1	10698.6	10666.3	10468.4
55°	9128.1	9174.4	9598.3	10475.5	12687.3	16132.8	16079.5	13227.6	12892.2	12587.7	12503.5
57.5°	6291.7	6368.9	7051.0	8353.4	11293.7	16603.0	20414.8	16532.8	15850.7	14786.9	14806.5
60°	3546.6	3636.4	4440.6	5623.7	8481.1	16092.1	23712.9	21539.0	20099.0	17362.3	17508.2
62.5°	2255.4	2352.2	2962.7	3907.2	5089.0	13341.3	25064.5	28498.7	26670.0	20536.9	20680.0
65°	1825.9	1868.0	2155.7	3225.2	3695.3	8037.6	24038.5	34231.9	33549.8	24566.2	23898.2
67.5°	1782.4	1796.4	1945.2	2707.3	3543.7	4517.8	19174.1	35304.1	36060.6	28328.9	25238.5
70°	1761.3	1810.5	2192.2	2583.8	3393.6	3810.4	11522.4	32365.3	33559.6	29312.8	23454.7
72.5°	854.7	851.9	1103.1	2336.8	3823.0	3952.2	5919.8	26187.2	27385.8	25395.7	19273.8
75°	689.1	630.2	602.1	856.1	3675.7	4081.3	3772.5	18019.1	18886.4	17026.8	11848.0
77.5°	654.0	583.8	534.7	536.1	1553.6	4328.3	3195.7	9973.0	10225.6	7691.0	3246.2
80°	541.7	477.2	442.1	498.2	752.3	4122.0	3455.3	4513.5	4141.6	1889.1	1080.7
82.5°	376.1	342.4	332.6	418.2	602.1	2937.5	4018.1	2425.2	2033.6	945.9	666.6
85°	240.0	204.9	227.4	304.6	468.8	1355.7	4138.8	1890.5	1503.1	600.7	376.1
87.5°	110.9	89.8	112.3	168.4	306.0	467.4	3938.1	2123.4	1548.0	317.2	237.2
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°	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8	6138.8
2.5°	6141.6	6114.9	6093.8	6054.5	6011.0	5968.9	5931.0	5883.3	5869.3	5856.7	5876.3
5°	6161.2	6134.5	6057.4	5936.7	5803.3	5678.4	5553.5	5446.8	5380.9	5344.4	5365.4
7.5°	6190.7	6152.8	5992.8	5771.0	5531.1	5312.1	5086.2	4905.1	4771.8	4708.6	4726.9
10°	6217.3	6144.4	5883.3	5550.7	5199.8	4874.2	4517.8	4223.0	4004.1	3889.0	3917.1
12.5°	6228.6	6112.1	5730.3	5275.6	4794.2	4317.1	3792.2	3351.5	3037.1	2922.0	2898.2
15°	6239.8	6075.6	5561.9	4962.6	4304.4	3629.4	2893.9	2366.2	2105.2	2047.7	2035.0
17.5°	6242.6	6012.4	5371.1	4623.0	3730.4	2811.1	1978.9	1643.5	1644.9	1737.5	1748.7
20°	6213.1	5918.4	5139.5	4200.6	3042.7	1943.8	1358.6	1301.0	1512.9	1744.5	1772.6
22.5°	6145.8	5793.5	4877.0	3708.0	2255.4	1280.0	1051.2	1114.4	1388.0	1671.5	1703.8
25°	6060.2	5641.9	4566.9	3136.7	1493.3	915.1	881.4	958.6	1143.8	1333.3	1351.5
27.5°	5943.7	5462.3	4218.8	2482.7	969.8	753.7	776.1	828.0	903.8	988.0	996.5
30°	5793.5	5247.6	3846.9	1810.5	732.6	677.9	710.2	738.2	770.5	818.2	822.4
32.5°	5620.9	5041.2	3465.2	1250.5	649.8	638.6	663.8	677.9	703.1	732.6	735.4
35°	5476.3	4844.8	3069.4	884.2	614.7	609.1	625.9	631.6	655.4	687.7	690.5
37.5°	5393.5	4684.8	2661.0	713.0	590.9	582.4	592.3	592.3	625.9	673.7	680.7
40°	5399.1	4596.3	2252.6	644.2	571.2	560.0	561.4	561.4	604.9	656.8	661.0
42.5°	5552.1	4618.8	1890.5	617.5	555.8	543.1	536.1	540.3	576.8	610.5	613.3
45°	5911.4	4777.4	1550.8	600.7	540.3	536.1	520.7	519.3	533.3	548.8	548.8
47.5°	6500.8	5090.4	1320.7	589.5	527.7	526.3	508.1	489.8	488.4	494.0	494.0
50°	7459.4	5629.3	1166.3	576.8	519.3	508.1	487.0	458.9	449.1	453.3	453.3
52.5°	8896.6	6590.7	1107.3	560.0	501.0	482.8	458.9	430.9	422.4	423.8	423.8
55°	10781.4	8067.1	1098.9	540.3	481.4	451.9	432.3	411.2	401.4	404.2	404.2
57.5°	13084.5	10109.2	1249.1	509.5	454.7	421.0	409.8	395.8	388.8	393.0	391.6
60°	15884.4	12781.3	1852.6	477.2	428.1	393.0	393.0	381.7	376.1	380.3	378.9
62.5°	19109.6	15850.7	2604.8	453.3	400.0	370.5	376.1	370.5	364.9	367.7	366.3
65°	21969.8	17850.7	2439.2	435.1	371.9	349.5	359.3	356.5	352.3	355.1	353.7
67.5°	22052.6	17109.6	1369.8	415.4	345.3	328.4	342.4	341.0	338.2	341.0	339.6
70°	19680.8	14447.3	771.9	378.9	317.2	303.1	322.8	321.4	318.6	324.2	322.8
72.5°	15767.9	10483.9	564.2	334.0	289.1	276.5	298.9	297.5	297.5	306.0	301.7
75°	9073.4	5394.9	450.5	286.3	259.6	249.8	269.5	270.9	273.7	284.9	276.5
77.5°	2586.6	1681.4	367.7	242.8	223.2	218.9	238.6	241.4	242.8	255.4	244.2
80°	961.4	774.7	303.1	203.5	182.5	183.9	202.1	206.3	207.7	220.3	206.3
82.5°	613.3	510.9	245.6	157.2	143.2	141.7	164.2	169.8	169.8	171.2	162.8
85°	357.9	306.0	185.3	113.7	101.0	96.8	122.1	131.9	127.7	124.9	119.3
87.5°	240.0	210.5	113.7	63.2	54.7	51.9	71.6	78.6	75.8	71.6	67.4
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)