

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: P193635

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193635
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-07-LED-E1-SL2-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 33656 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

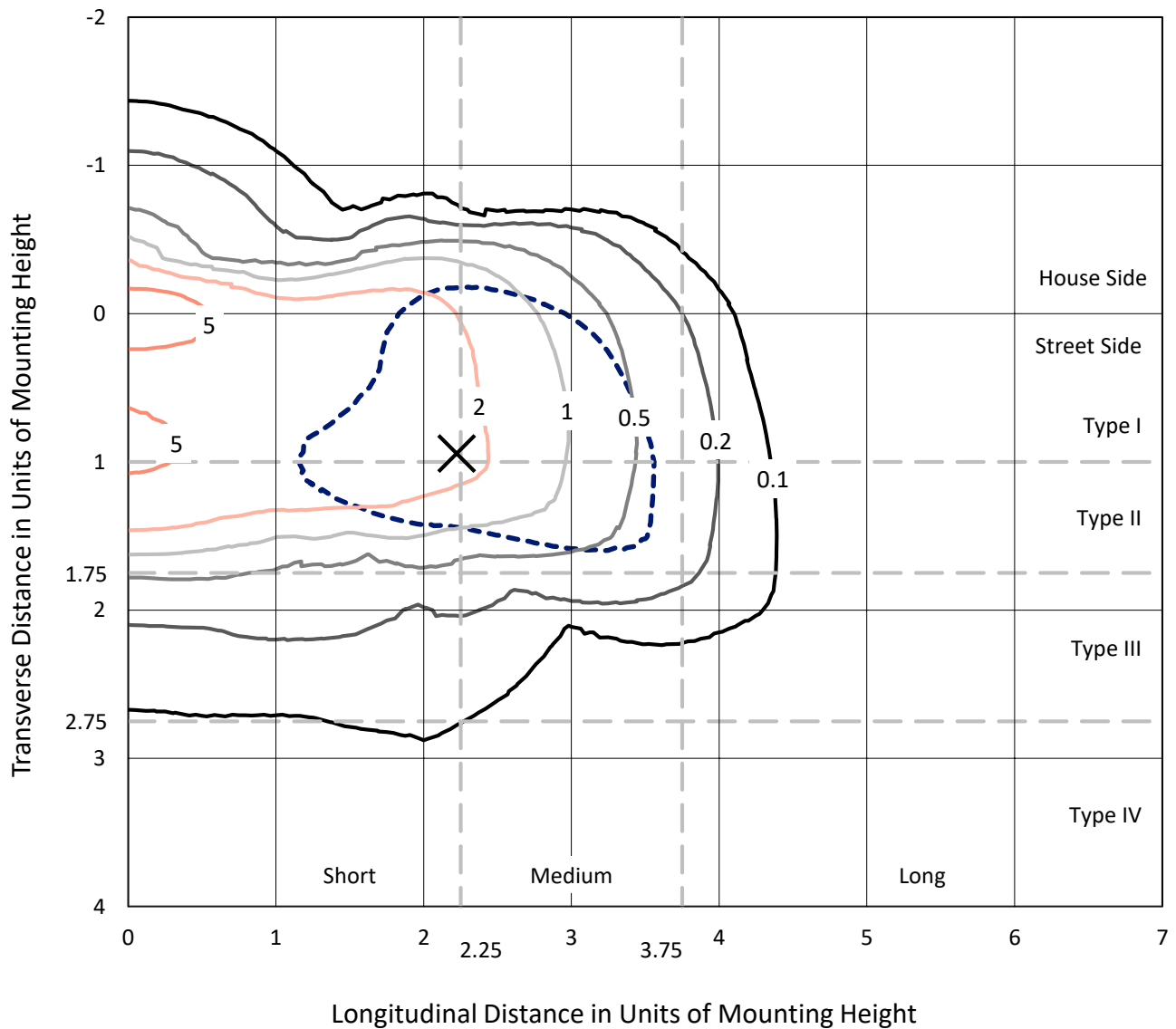
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193635
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Iso-Footcandle Lines of Horizontal Illumination

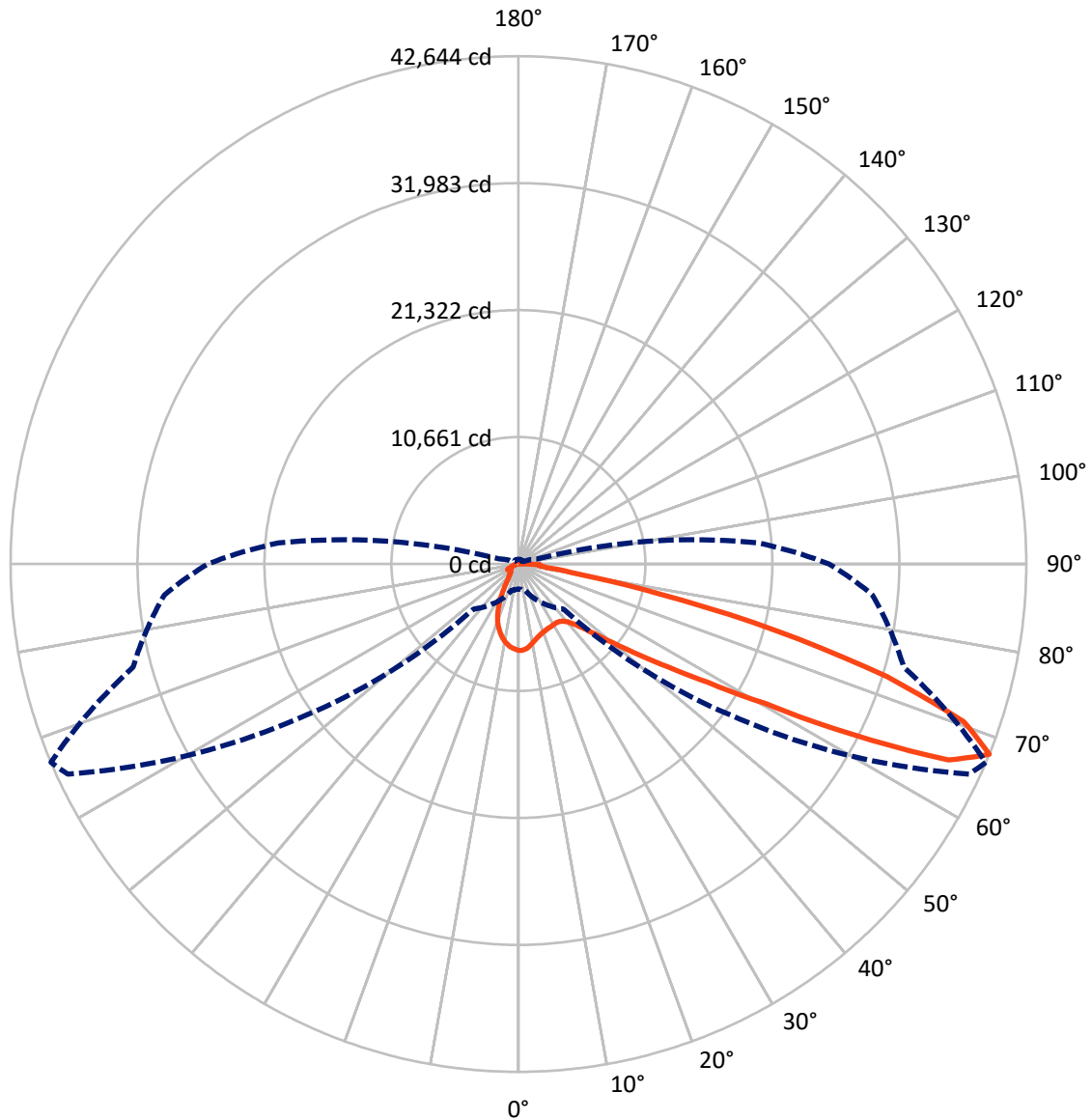
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193635
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-8030

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5576.4	0.0	5576.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	28079.6	0.0	28079.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	33656.0	0.0	33656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.3	1.8
10°-20°	1433.1	4.3
20°-30°	1942.5	5.8
30°-40°	2761.5	8.2
40°-50°	4620.2	13.7
50°-60°	7309.1	21.7
60°-70°	9311.0	27.7
70°-80°	4877.1	14.5
80°-90°	782.2	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°	33656.0	100.0
0°-180°	33656.0	100.0

Coefficient of Utilization



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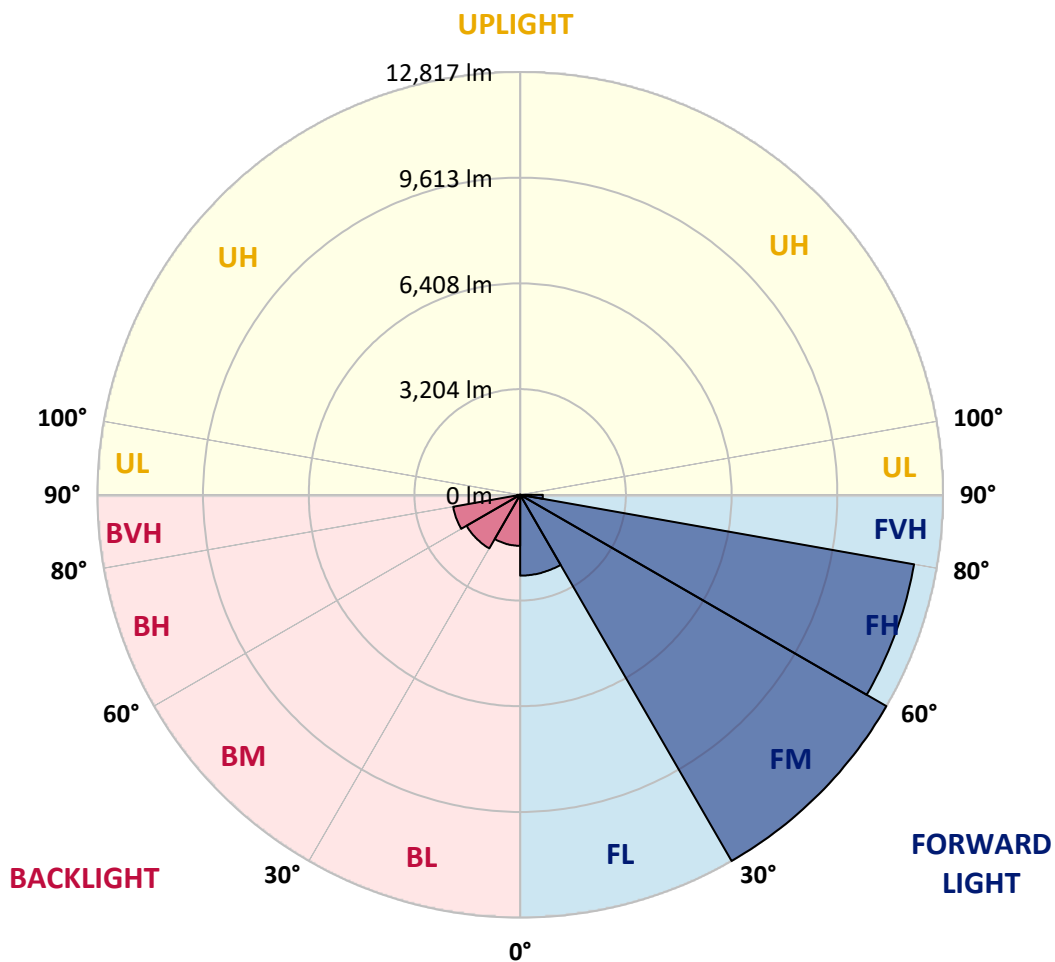
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2449.3	7.3			
FM	(30°-60°)	12816.9	38.1			
FH	(60°-80°)	12125.5	36.0			G5
FVH	(80°-90°)	687.8	2.0			G4/750
BL	(0°-30°)	1545.6	4.6	B3/2500		
BM	(30°-60°)	1873.8	5.6	B2/2500		
BH	(60°-80°)	2062.5	6.1	B3/2500		G3/2500
BVH	(80°-90°)	94.4	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-G5

Type II Short





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 CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5
2.5°	6960.8	6972.4	7008.9	7032.1	7136.7	7181.5	7213.0	7244.6	7249.6	7264.5	7249.6
5°	6230.5	6255.4	6323.4	6399.8	6602.3	6761.6	6929.2	7103.5	7135.0	7247.9	7279.4
7.5°	5664.5	5657.9	5714.3	5805.6	6013.1	6233.8	6527.6	6874.5	6942.5	7196.4	7319.3
10°	5251.3	5246.3	5306.1	5400.7	5598.2	5807.3	6139.2	6613.9	6710.2	7115.1	7357.4
12.5°	4945.9	4947.6	5007.3	5111.9	5312.7	5523.5	5860.4	6361.6	6484.4	7020.5	7397.3
15°	4743.4	4756.7	4804.8	4916.0	5111.9	5322.6	5652.9	6172.4	6310.2	6945.8	7442.1
17.5°	4675.4	4696.9	4713.5	4794.9	4962.5	5173.3	5496.9	6033.0	6179.1	6894.4	7481.9
20°	4738.4	4763.3	4731.8	4760.0	4866.2	5052.1	5374.1	5923.5	6072.8	6836.3	7486.9
22.5°	5009.0	5032.2	4939.3	4857.9	4851.3	4964.2	5272.9	5837.2	5991.5	6793.1	7488.6
25°	5485.3	5500.2	5344.2	5155.0	4970.8	4932.6	5201.5	5777.4	5941.7	6755.0	7457.0
27.5°	6069.5	6081.1	5901.9	5623.1	5252.9	5007.3	5176.6	5742.6	5913.5	6721.8	7403.9
30°	6779.9	6834.6	6594.0	6242.1	5702.7	5228.0	5226.4	5724.3	5882.0	6665.3	7299.3
32.5°	7506.8	7530.0	7364.1	7007.2	6308.5	5616.4	5365.8	5737.6	5873.7	6597.3	7166.6
35°	8243.7	8273.6	8165.7	7878.6	7136.7	6185.7	5638.0	5815.6	5925.1	6574.1	7073.6
37.5°	9198.0	9237.9	9088.5	8756.6	8144.1	6957.5	6091.1	6011.4	6082.8	6640.4	7045.4
40°	10706.7	10688.5	10252.0	9757.4	9246.2	7945.0	6738.4	6343.4	6384.9	6854.6	7131.7
42.5°	12462.7	12417.9	11666.0	10889.3	10457.8	9140.0	7594.8	6919.3	6911.0	7276.1	7435.4
45°	13863.5	13826.9	13149.8	12192.1	11846.9	10500.9	8701.8	7777.3	7715.9	7945.0	7996.4
47.5°	14621.9	14623.6	14233.6	13451.8	13443.5	12230.3	10124.2	9018.8	8912.6	9020.5	8965.7
50°	14356.4	14391.2	14349.7	14100.8	14900.8	14497.5	11981.4	10749.9	10535.8	10642.0	10431.2
52.5°	13071.8	13116.6	13362.2	13744.0	15513.2	17237.6	14709.9	12900.8	12651.9	12613.7	12379.7
55°	10794.7	10849.4	11350.7	12388.0	15003.7	19078.2	19015.2	15642.6	15246.0	14885.8	14786.2
57.5°	7440.4	7531.7	8338.3	9878.5	13355.6	19634.2	24142.0	19551.2	18744.6	17486.6	17509.8
60°	4194.1	4300.3	5251.3	6650.4	10029.6	19030.1	28042.2	25471.4	23768.5	20532.1	20704.7
62.5°	2667.1	2781.7	3503.6	4620.6	6018.1	15777.1	29640.5	33701.8	31539.2	24286.4	24455.6
65°	2159.3	2209.1	2549.3	3814.0	4370.0	9505.1	28427.3	40481.7	39675.1	29051.3	28261.3
67.5°	2107.8	2124.4	2300.3	3201.6	4190.7	5342.6	22674.8	41749.7	42644.3	33501.0	29846.3
70°	2082.9	2141.0	2592.4	3055.5	4013.1	4506.1	13626.1	38274.3	39686.7	34664.4	27736.9
72.5°	1010.8	1007.4	1304.5	2763.4	4521.0	4673.7	7000.6	30968.3	32385.7	30032.2	22792.6
75°	814.9	745.2	712.0	1012.4	4346.7	4826.4	4461.3	21308.9	22334.5	20135.4	14011.2
77.5°	773.4	690.4	632.3	634.0	1837.3	5118.5	3779.1	11793.8	12092.6	9095.1	3838.9
80°	640.6	564.3	522.8	589.2	889.6	4874.5	4086.2	5337.6	4897.8	2234.0	1278.0
82.5°	444.8	405.0	393.3	494.6	712.0	3473.7	4751.7	2868.0	2404.9	1118.6	788.4
85°	283.8	242.3	268.9	360.2	554.3	1603.3	4894.4	2235.6	1777.5	710.4	444.8
87.5°	131.1	106.2	132.8	199.2	361.8	552.7	4657.1	2511.1	1830.6	375.1	280.5
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°	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5	7259.5
2.5°	7262.8	7231.3	7206.4	7159.9	7108.5	7058.7	7013.9	6957.5	6940.9	6925.9	6949.2
5°	7286.1	7254.5	7163.3	7020.5	6862.8	6715.1	6567.4	6441.3	6363.3	6320.1	6345.0
7.5°	7320.9	7276.1	7086.9	6824.7	6540.9	6282.0	6014.7	5800.6	5643.0	5568.3	5589.9
10°	7352.5	7266.2	6957.5	6564.1	6149.2	5764.1	5342.6	4994.0	4735.1	4599.0	4632.2
12.5°	7365.7	7228.0	6776.5	6238.8	5669.5	5105.2	4484.5	3963.4	3591.6	3455.5	3427.3
15°	7379.0	7184.8	6577.4	5868.7	5090.3	4292.0	3422.3	2798.2	2489.5	2421.5	2406.6
17.5°	7382.3	7110.1	6351.7	5467.0	4411.5	3324.4	2340.2	1943.5	1945.2	2054.7	2068.0
20°	7347.5	6998.9	6077.8	4967.5	3598.2	2298.7	1606.6	1538.5	1789.2	2063.0	2096.2
22.5°	7267.8	6851.2	5767.4	4384.9	2667.1	1513.6	1243.1	1317.8	1641.4	1976.7	2014.9
25°	7166.6	6672.0	5400.7	3709.4	1765.9	1082.1	1042.3	1133.6	1352.7	1576.7	1598.3
27.5°	7028.8	6459.5	4989.1	2936.0	1146.9	891.3	917.8	979.2	1068.8	1168.4	1178.4
30°	6851.2	6205.6	4549.2	2141.0	866.4	801.6	839.8	873.0	911.2	967.6	972.6
32.5°	6647.1	5961.6	4097.8	1478.8	768.4	755.2	785.0	801.6	831.5	866.4	869.7
35°	6476.1	5729.3	3629.8	1045.6	726.9	720.3	740.2	746.9	775.1	813.3	816.6
37.5°	6378.2	5540.1	3146.8	843.1	698.7	688.8	700.4	700.4	740.2	796.7	805.0
40°	6384.9	5435.5	2663.8	761.8	675.5	662.2	663.9	663.9	715.3	776.7	781.7
42.5°	6565.8	5462.1	2235.6	730.3	657.2	642.3	634.0	639.0	682.1	722.0	725.3
45°	6990.6	5649.6	1834.0	710.4	639.0	634.0	615.7	614.1	630.7	648.9	648.9
47.5°	7687.7	6019.7	1561.8	697.1	624.0	622.4	600.8	579.2	577.6	584.2	584.2
50°	8821.3	6657.0	1379.2	682.1	614.1	600.8	575.9	542.7	531.1	536.1	536.1
52.5°	10520.8	7793.9	1309.5	662.2	592.5	570.9	542.7	509.5	499.6	501.2	501.2
55°	12749.8	9539.9	1299.5	639.0	569.3	534.4	511.2	486.3	474.7	478.0	478.0
57.5°	15473.4	11954.8	1477.1	602.5	537.7	497.9	484.6	468.0	459.7	464.7	463.1
60°	18784.5	15114.9	2190.8	564.3	506.2	464.7	464.7	451.4	444.8	449.8	448.1
62.5°	22598.4	18744.6	3080.4	536.1	473.0	438.2	444.8	438.2	431.5	434.8	433.2
65°	25980.9	21109.7	2884.6	514.5	439.8	413.3	424.9	421.6	416.6	419.9	418.2
67.5°	26078.8	20233.4	1619.9	491.3	408.3	388.4	405.0	403.3	400.0	403.3	401.6
70°	23273.9	17084.9	912.8	448.1	375.1	358.5	381.7	380.1	376.8	383.4	381.7
72.5°	18646.7	12397.9	667.2	395.0	341.9	327.0	353.5	351.9	351.9	361.8	356.8
75°	10729.9	6379.9	532.8	338.6	307.0	295.4	318.7	320.3	323.6	336.9	327.0
77.5°	3058.8	1988.3	434.8	287.1	263.9	258.9	282.1	285.5	287.1	302.1	288.8
80°	1136.9	916.2	358.5	240.7	215.8	217.4	239.0	244.0	245.6	260.6	244.0
82.5°	725.3	604.1	290.4	185.9	169.3	167.6	194.2	200.8	200.8	202.5	192.5
85°	423.2	361.8	219.1	134.4	119.5	114.5	144.4	156.0	151.0	147.7	141.1
87.5°	283.8	249.0	134.4	74.7	64.7	61.4	84.6	92.9	89.6	84.6	79.7
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)