

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: P191248

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL4-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46270.1 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

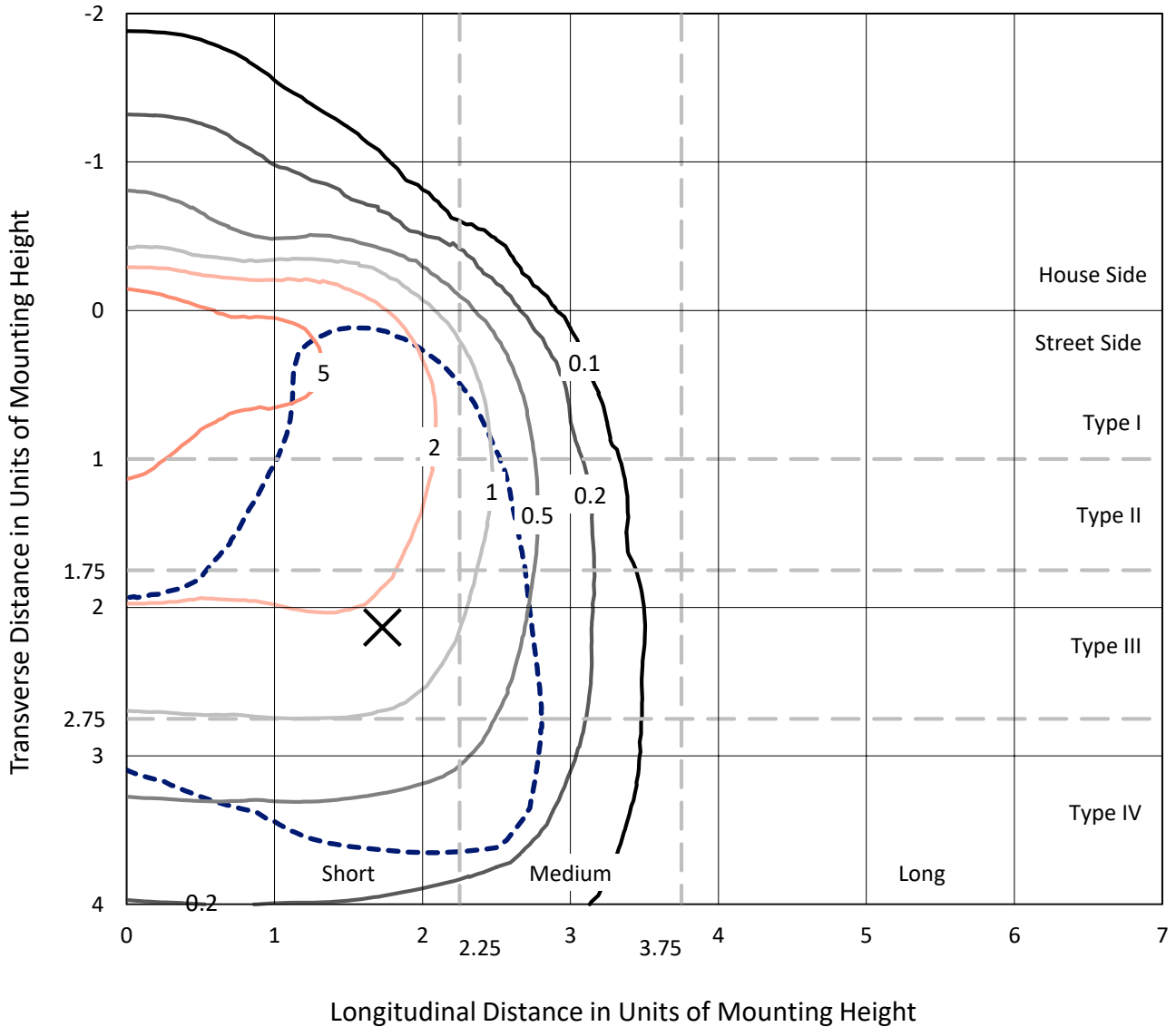
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

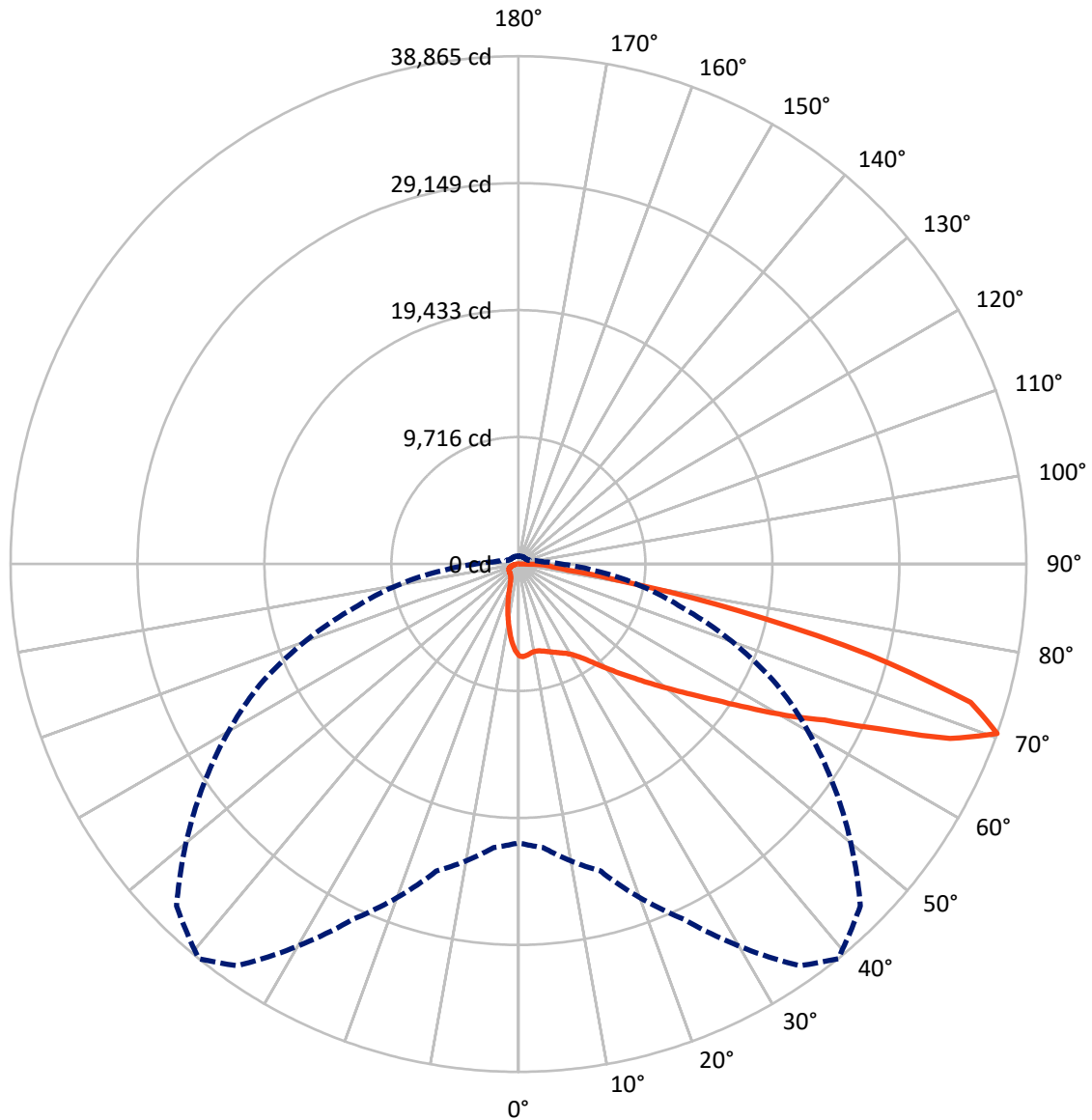
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5262.5	0.0	5262.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	41007.6	0.0	41007.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	46270.1	0.0	46270.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.8	1.3
10°-20°	1506.9	3.3
20°-30°	2346.2	5.1
30°-40°	3655.0	7.9
40°-50°	6136.1	13.3
50°-60°	9747.7	21.1
60°-70°	13002.4	28.1
70°-80°	7851.8	17.0
80°-90°	1421.1	3.1
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°	46270.1	100.0
0°-180°	46270.1	100.0



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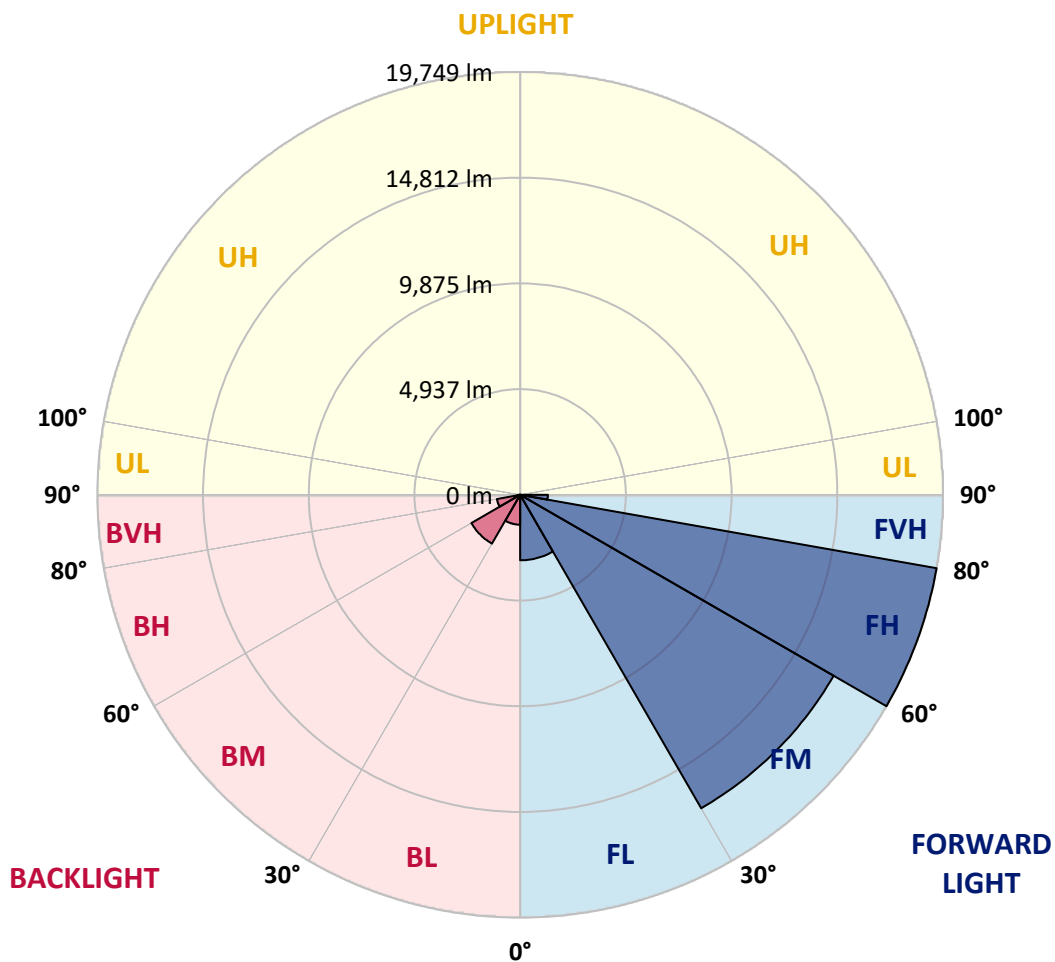
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3059.9	6.6			
FM	(30°-60°)	16905.3	36.5			
FH	(60°-80°)	19749.4	42.7			G5
FVH	(80°-90°)	1293.0	2.8			G5
BL	(0°-30°)	1396.0	3.0	B3/2500		
BM	(30°-60°)	2633.6	5.7	B3/5000		
BH	(60°-80°)	1104.8	2.4	B3/2500		G3/2500
BVH	(80°-90°)	128.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5
2.5°	7161.0	7158.6	7139.8	7125.7	7113.9	7109.2	7118.6	7083.3	7052.7	7015.1	6975.1
5°	7106.8	7104.5	7073.9	7045.7	7017.4	7008.0	7005.7	6942.2	6904.5	6848.0	6772.9
7.5°	7048.0	7036.3	6996.3	6949.2	6899.8	6876.3	6852.7	6770.5	6728.2	6671.7	6584.6
10°	6986.9	6972.7	6935.1	6888.0	6841.0	6805.7	6765.8	6685.8	6641.1	6598.7	6497.6
12.5°	6923.3	6911.6	6902.2	6881.0	6848.0	6817.5	6786.9	6718.7	6671.7	6622.3	6504.6
15°	6913.9	6909.2	6930.4	6944.5	6925.7	6906.9	6873.9	6815.1	6765.8	6716.4	6563.5
17.5°	6989.2	6986.9	7041.0	7078.6	7069.2	7036.3	6991.6	6925.7	6885.7	6843.3	6652.9
20°	7153.9	7165.7	7231.5	7281.0	7233.9	7186.8	7113.9	7022.1	7001.0	6982.2	6744.6
22.5°	7464.5	7476.2	7523.3	7542.1	7419.8	7351.5	7250.4	7132.7	7118.6	7132.7	6855.1
25°	7949.0	7937.3	7930.2	7859.6	7636.1	7530.4	7400.9	7278.6	7285.7	7349.2	7010.4
27.5°	8591.3	8527.7	8428.9	8217.3	7862.0	7744.4	7586.7	7473.9	7518.6	7640.8	7243.3
30°	9257.0	9186.4	8958.3	8612.4	8158.4	8029.0	7852.6	7725.5	7843.2	8036.1	7553.9
32.5°	9873.4	9864.0	9529.9	9085.3	8567.7	8454.8	8278.4	8134.9	8325.5	8619.5	8019.6
35°	10546.2	10567.4	10167.4	9633.4	9120.6	9003.0	8875.9	8767.7	9021.8	9426.4	8694.8
37.5°	11266.1	11308.4	10835.5	10233.3	9751.1	9701.7	9626.4	9579.3	9972.1	10532.1	9638.1
40°	12228.3	12185.9	11529.6	10910.8	10525.0	10522.7	10499.2	10555.6	11209.6	11976.5	10849.6
42.5°	13258.6	13134.0	12265.9	11637.7	11374.3	11454.3	11501.3	11731.8	12698.7	13731.5	12327.1
45°	14369.0	14089.0	13030.4	12407.0	12317.7	12487.0	12646.9	13148.1	14451.3	15728.7	13945.6
47.5°	15255.9	14985.3	13820.9	13213.9	13409.1	13665.6	13973.7	14766.5	16413.2	17791.9	15542.8
50°	15954.6	15778.1	14618.4	14154.9	14611.3	15006.5	15510.0	16599.1	18455.3	19800.8	17022.6
52.5°	16632.1	16500.3	15422.9	15119.4	16022.8	16568.5	17253.1	18565.8	20548.9	21777.0	18267.0
55°	17243.7	17149.6	16288.7	16321.6	17683.6	18394.1	19255.1	20805.4	22830.8	23538.9	19321.0
57.5°	17933.0	17813.1	17276.6	17829.5	19817.3	20739.5	21859.3	23322.6	24971.7	25105.8	20123.2
60°	18627.0	18523.5	18372.9	19570.3	22527.4	23496.7	24557.6	25762.1	27143.0	26322.0	20076.1
62.5°	19229.2	19241.0	19506.9	21398.2	25181.0	26303.1	27597.0	28787.4	29107.2	26533.7	18591.7
65°	20250.2	20436.0	21228.8	23985.9	28916.8	30417.6	32005.6	31815.0	29650.7	24555.2	15408.8
67.5°	21464.1	21791.1	23397.9	27434.7	33638.2	35630.7	36244.8	32499.6	27474.7	19960.8	10983.7
70°	21341.7	21791.1	24334.1	30005.9	37529.2	38865.4	37002.3	29413.1	21817.0	13039.9	5834.2
72.5°	18951.6	19593.8	22426.3	28827.4	36303.5	36186.0	32123.2	21927.5	12962.2	5236.6	2279.5
75°	14444.3	15093.5	17530.7	22774.4	28693.3	27705.2	22793.2	12113.0	4919.1	2079.6	1437.3
77.5°	8309.0	8812.4	10694.4	13966.7	18203.5	17189.6	12686.9	5387.2	2394.8	1449.1	1122.2
80°	4639.1	4919.1	6062.3	7085.7	8920.6	8177.3	5676.6	3347.6	1787.9	1051.6	865.7
82.5°	3667.5	3916.9	4902.6	4469.7	4074.5	3759.2	3260.6	2980.6	1427.9	663.4	517.5
85°	3204.1	3441.7	4149.8	3519.4	2783.0	2552.5	2648.9	2933.5	1110.4	399.9	442.2
87.5°	2968.8	3286.4	3698.1	2712.5	2166.6	1919.7	2444.2	3215.9	357.6	249.4	178.8
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°	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5	7024.5
2.5°	6939.8	6902.2	6841.0	6786.9	6702.3	6657.6	6608.2	6572.9	6544.6	6521.1	6558.8
5°	6725.8	6655.2	6525.8	6387.0	6222.3	6092.9	5984.7	5883.6	5813.0	5766.0	5798.9
7.5°	6523.5	6408.2	6205.8	5954.2	5671.9	5431.9	5234.2	5060.2	4940.2	4862.6	4893.2
10°	6408.2	6264.7	5951.8	5556.6	5140.2	4766.1	4455.6	4187.4	4001.6	3895.7	3912.2
12.5°	6379.9	6194.1	5761.3	5217.8	4648.5	4128.6	3691.0	3319.4	3058.2	2921.8	2926.5
15°	6401.1	6163.5	5582.4	4893.2	4173.3	3517.0	2971.2	2519.5	2216.0	2060.7	2058.4
17.5°	6436.4	6140.0	5394.2	4542.6	3691.0	2928.8	2319.5	1877.3	1609.1	1484.4	1475.0
20°	6474.1	6102.3	5182.5	4163.9	3190.0	2383.1	1816.1	1470.3	1300.9	1232.7	1228.0
22.5°	6528.2	6069.4	4963.8	3763.9	2698.3	1940.8	1493.8	1260.9	1171.6	1136.3	1131.6
25°	6615.2	6052.9	4730.8	3347.6	2256.0	1623.2	1300.9	1157.5	1105.7	1082.2	1079.8
27.5°	6761.1	6076.4	4512.0	2942.9	1896.1	1409.1	1192.8	1105.7	1068.1	1046.9	1044.5
30°	6949.2	6149.4	4281.6	2559.5	1616.2	1263.2	1126.9	1070.4	1039.8	1018.7	1018.7
32.5°	7262.1	6271.7	4039.2	2227.8	1416.2	1162.2	1077.5	1039.8	1013.9	997.5	995.1
35°	7723.2	6502.3	3813.4	1952.6	1272.7	1089.2	1035.1	1006.9	988.1	978.7	978.7
37.5°	8393.6	6866.9	3613.4	1755.0	1185.7	1039.8	995.1	974.0	962.2	962.2	962.2
40°	9294.6	7370.4	3451.1	1623.2	1136.3	1004.5	964.5	948.1	941.0	943.4	943.4
42.5°	10407.4	8024.3	3342.9	1531.5	1112.8	983.4	943.4	929.2	922.2	919.8	922.2
45°	11675.3	8767.7	3331.1	1463.2	1089.2	969.2	929.2	915.1	901.0	891.6	891.6
47.5°	12908.1	9522.9	3427.6	1439.7	1063.4	952.8	917.5	903.4	882.2	861.0	861.0
50°	13997.2	10165.1	3557.0	1449.1	1053.9	929.2	898.7	891.6	858.7	835.1	832.8
52.5°	14863.0	10659.1	3662.8	1477.3	1063.4	912.8	875.1	877.5	842.2	816.3	814.0
55°	15556.9	10983.7	3634.5	1505.6	1084.5	903.4	854.0	858.7	830.4	804.6	804.6
57.5°	15860.4	10863.7	3321.7	1482.1	1101.0	905.7	837.5	856.3	832.8	809.3	809.3
60°	15208.8	9798.1	2736.0	1378.5	1079.8	898.7	830.4	865.7	863.4	839.8	837.5
62.5°	13237.4	7890.2	2121.9	1225.6	1006.9	863.4	811.6	863.4	889.3	882.2	879.8
65°	10202.7	5620.1	1620.9	1061.0	908.1	804.6	762.2	809.3	844.5	854.0	851.6
67.5°	6622.3	3444.1	1249.1	905.7	797.5	736.3	698.7	719.9	726.9	726.9	722.2
70°	3255.8	1853.8	995.1	762.2	684.6	663.4	642.2	630.4	618.7	609.3	609.3
72.5°	1606.7	1211.5	818.7	644.6	590.4	581.0	576.3	562.2	552.8	541.0	536.3
75°	1188.1	985.7	696.3	543.4	508.1	498.7	508.1	496.3	494.0	484.6	479.9
77.5°	976.3	839.8	599.9	465.7	435.2	418.7	432.8	435.2	437.5	423.4	418.7
80°	792.8	710.4	501.0	385.9	357.6	345.9	355.3	374.1	378.8	357.6	348.2
82.5°	571.6	581.0	404.6	301.2	277.6	268.2	287.0	310.6	315.3	284.7	277.6
85°	479.9	484.6	310.6	214.1	190.6	176.5	207.0	230.6	247.0	216.5	209.4
87.5°	200.0	284.7	178.8	120.0	105.9	91.8	110.6	122.3	148.2	136.5	134.1
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)