

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: P193807

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193807
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-09-LED-E1-SL4-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA 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: 45264 lumens
Efficiency: N/A
Efficacy: 78.7 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): 575
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

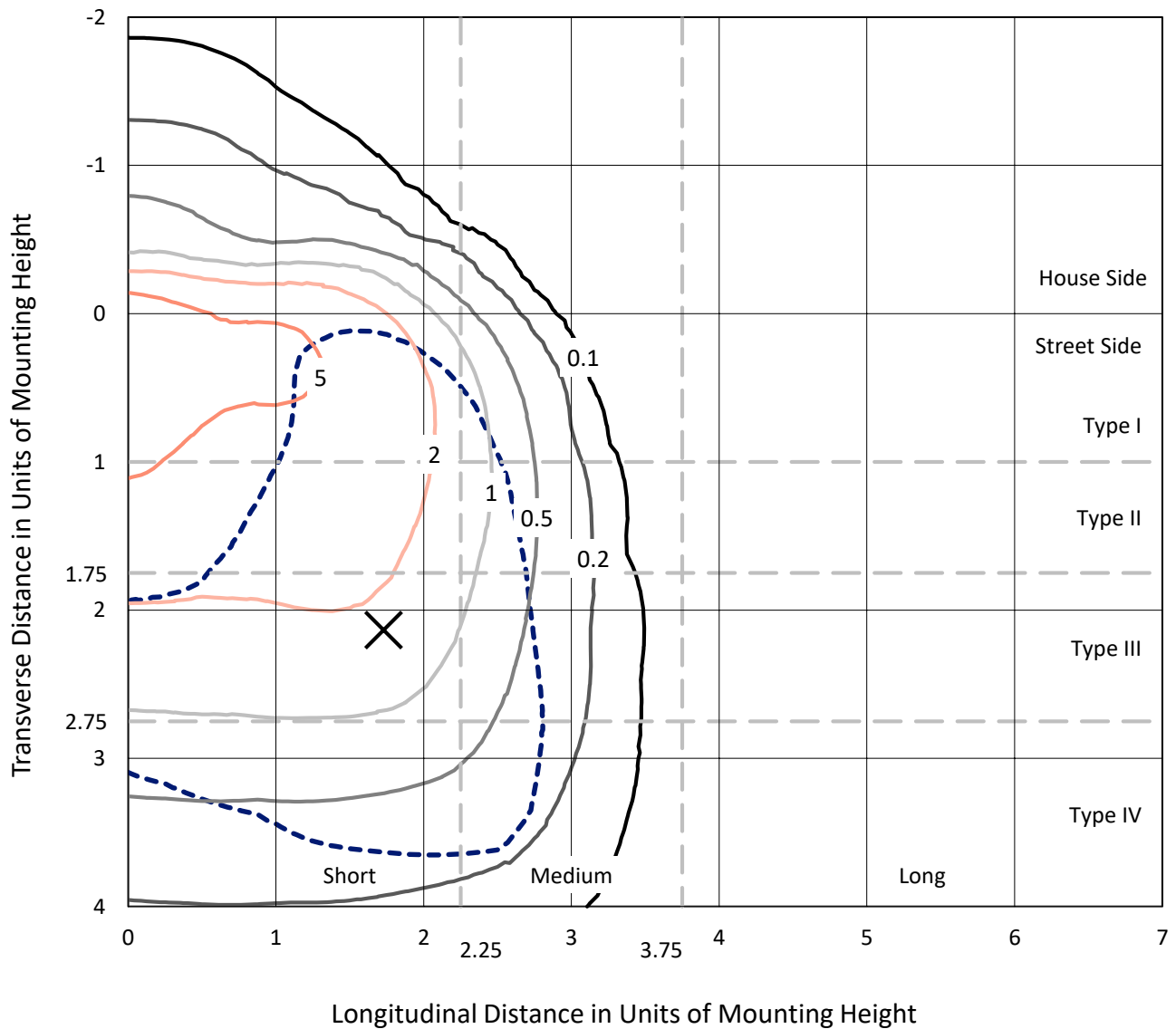


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

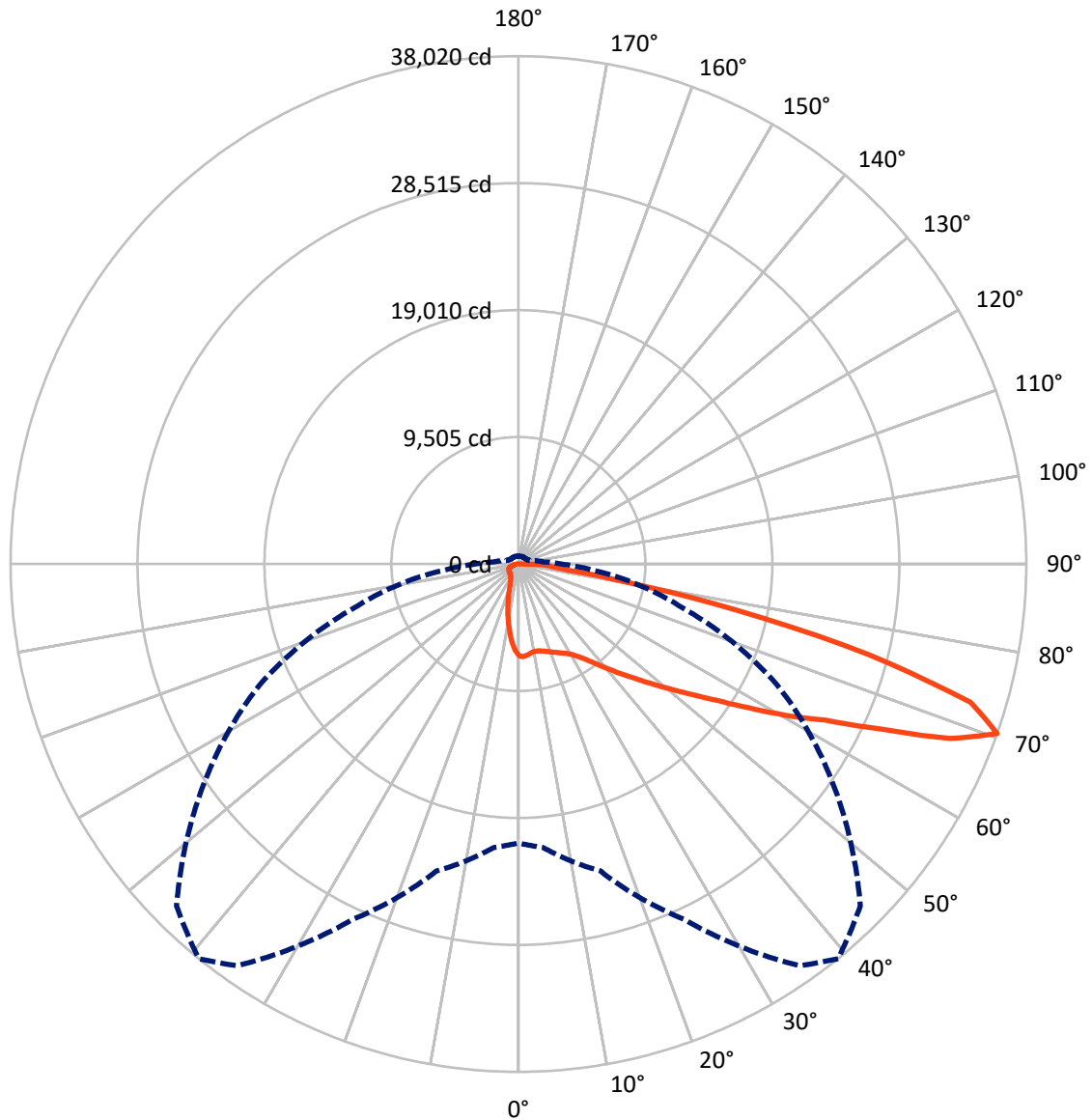


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Semi-Cutoff

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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	5148.1	0.0	5148.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	40115.9	0.0	40115.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	45264.0	0.0	45264.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.7	1.3
10°-20°	1474.1	3.3
20°-30°	2295.2	5.1
30°-40°	3575.5	7.9
40°-50°	6002.7	13.3
50°-60°	9535.8	21.1
60°-70°	12719.7	28.1
70°-80°	7681.1	17.0
80°-90°	1390.2	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°	45264.0	100.0
0°-180°	45264.0	100.0



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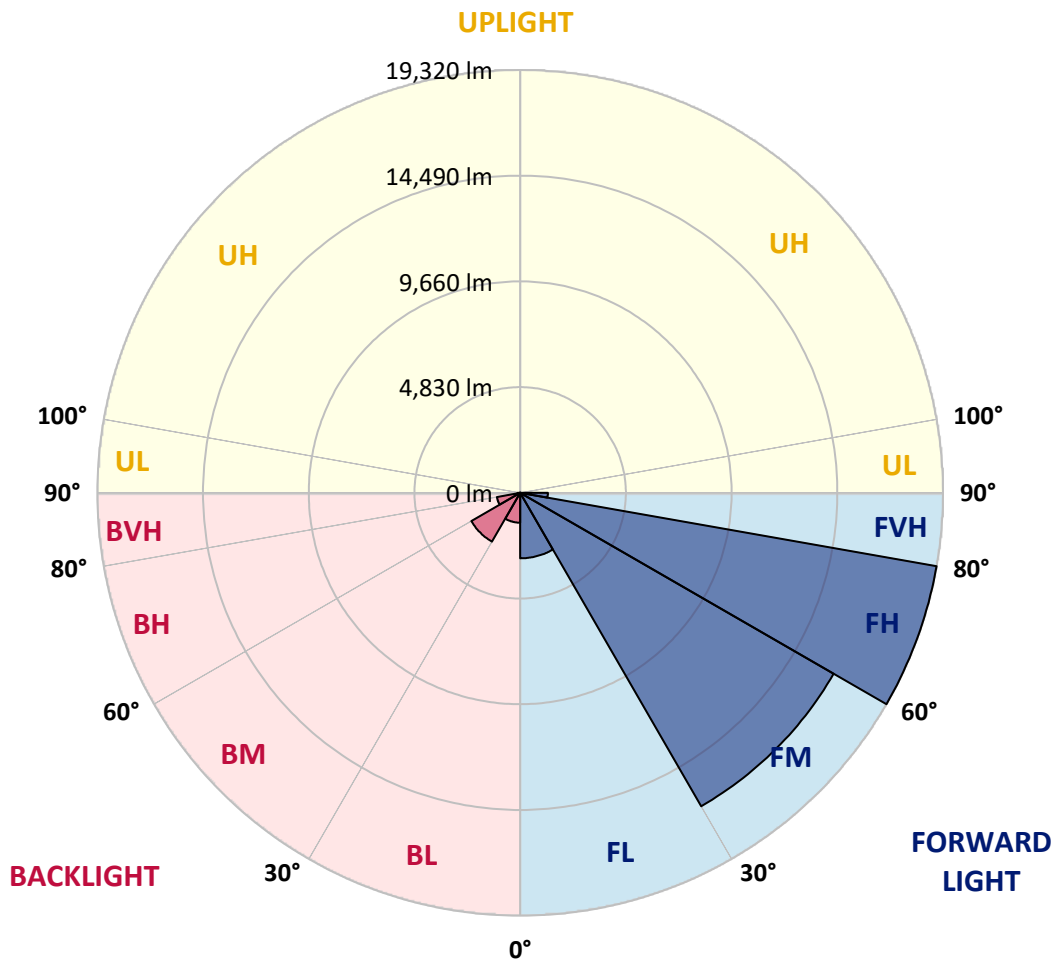
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2993.4	6.6			
FM	(30°-60°)	16537.7	36.5			
FH	(60°-80°)	19320.0	42.7			G5
FVH	(80°-90°)	1264.9	2.8			G5
BL	(0°-30°)	1365.7	3.0	B3/2500		
BM	(30°-60°)	2576.3	5.7	B3/5000		
BH	(60°-80°)	1080.8	2.4	B3/2500		G3/2500
BVH	(80°-90°)	125.3	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°	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8
2.5°	7005.3	7003.0	6984.5	6970.7	6959.2	6954.6	6963.8	6929.3	6899.4	6862.6	6823.4
5°	6952.3	6950.0	6920.1	6892.5	6864.9	6855.7	6853.4	6791.2	6754.4	6699.2	6625.5
7.5°	6894.8	6883.3	6844.2	6798.1	6749.8	6726.8	6703.8	6623.2	6581.8	6526.6	6441.4
10°	6835.0	6821.1	6784.3	6738.3	6692.3	6657.8	6618.6	6540.4	6496.7	6455.2	6356.3
12.5°	6772.8	6761.3	6752.1	6731.4	6699.2	6669.3	6639.3	6572.6	6526.6	6478.2	6363.2
15°	6763.6	6759.0	6779.7	6793.5	6775.1	6756.7	6724.5	6667.0	6618.6	6570.3	6420.7
17.5°	6837.3	6835.0	6887.9	6924.7	6915.5	6883.3	6839.6	6775.1	6736.0	6694.6	6508.2
20°	6998.4	7009.9	7074.3	7122.6	7076.6	7030.6	6959.2	6869.5	6848.8	6830.4	6597.9
22.5°	7302.1	7313.6	7359.7	7378.1	7258.4	7191.7	7092.7	6977.6	6963.8	6977.6	6706.1
25°	7776.2	7764.7	7757.8	7688.7	7470.1	7366.6	7240.0	7120.3	7127.2	7189.4	6858.0
27.5°	8404.5	8342.3	8245.7	8038.6	7691.1	7576.0	7421.8	7311.3	7355.1	7474.7	7085.8
30°	9055.7	8986.7	8763.5	8425.2	7981.0	7854.4	7681.8	7557.6	7672.6	7861.3	7389.6
32.5°	9658.7	9649.5	9322.7	8887.7	8381.5	8271.0	8098.4	7958.0	8144.4	8432.1	7845.2
35°	10316.9	10337.6	9946.4	9424.0	8922.3	8807.2	8682.9	8577.1	8825.6	9221.4	8505.7
37.5°	11021.1	11062.5	10599.9	10010.8	9539.0	9490.7	9417.0	9371.0	9755.3	10303.1	9428.6
40°	11962.3	11920.9	11278.8	10673.6	10296.2	10293.9	10270.8	10326.1	10965.8	11716.1	10613.7
42.5°	12970.3	12848.3	11999.1	11384.7	11126.9	11205.2	11251.2	11476.7	12422.6	13432.9	12059.0
45°	14056.5	13782.7	12747.1	12137.2	12049.8	12215.5	12372.0	12862.1	14137.1	15386.7	13642.3
47.5°	14924.1	14659.5	13520.3	12926.6	13117.6	13368.4	13669.9	14445.5	16056.4	17405.0	15204.9
50°	15607.6	15435.0	14300.5	13847.1	14293.6	14680.2	15172.7	16238.2	18053.9	19370.3	16652.4
52.5°	16270.4	16141.5	15087.5	14790.7	15674.4	16208.3	16878.0	18162.1	20102.1	21303.4	17869.8
55°	16868.8	16776.7	15934.4	15966.6	17299.1	17994.1	18836.4	20353.0	22334.4	23027.1	18900.8
57.5°	17543.1	17425.7	16901.0	17441.8	19386.4	20288.5	21384.0	22815.4	24428.6	24559.8	19685.6
60°	18221.9	18120.7	17973.4	19144.8	22037.6	22985.7	24023.6	25201.9	26552.8	25749.6	19639.6
62.5°	18811.1	18822.6	19082.6	20932.9	24633.5	25731.2	26996.9	28161.4	28474.4	25956.7	18187.4
65°	19809.9	19991.7	20767.2	23464.4	28288.0	29756.2	31309.6	31123.2	29006.0	24021.3	15073.7
67.5°	20997.4	21317.2	22889.0	26838.1	32906.7	34856.0	35456.6	31792.9	26877.3	19526.8	10744.9
70°	20877.7	21317.2	23805.0	29353.5	36713.1	38020.3	36197.6	28773.6	21342.6	12756.3	5707.3
72.5°	18539.5	19167.8	21938.6	28200.5	35514.2	35399.1	31424.7	21450.7	12680.3	5122.8	2230.0
75°	14130.2	14765.3	17149.5	22279.2	28069.3	27102.8	22297.6	11849.6	4812.1	2034.4	1406.1
77.5°	8128.3	8620.8	10461.9	13663.0	17807.7	16815.8	12411.1	5270.0	2342.8	1417.6	1097.7
80°	4538.2	4812.1	5930.5	6931.6	8726.7	7999.4	5553.1	3274.8	1749.0	1028.7	846.9
82.5°	3587.8	3831.7	4796.0	4372.5	3985.9	3677.5	3189.6	2915.8	1396.9	649.0	506.3
85°	3134.4	3366.8	4059.5	3442.8	2722.5	2496.9	2591.3	2869.8	1086.2	391.2	432.7
87.5°	2904.3	3215.0	3617.7	2653.4	2119.5	1877.9	2391.1	3145.9	349.8	243.9	174.9
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°	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8	6871.8
2.5°	6788.9	6752.1	6692.3	6639.3	6556.5	6512.8	6464.4	6429.9	6402.3	6379.3	6416.1
5°	6579.5	6510.5	6383.9	6248.1	6087.0	5960.4	5854.6	5755.6	5686.6	5640.6	5672.8
7.5°	6381.6	6268.8	6070.9	5824.7	5548.5	5313.8	5120.5	4950.2	4832.8	4756.9	4786.8
10°	6268.8	6128.4	5822.4	5435.7	5028.4	4662.5	4358.7	4096.4	3914.6	3811.0	3827.1
12.5°	6241.2	6059.4	5636.0	5104.4	4547.4	4038.8	3610.8	3247.2	2991.7	2858.3	2862.9
15°	6261.9	6029.5	5461.1	4786.8	4082.6	3440.5	2906.6	2464.7	2167.9	2016.0	2013.7
17.5°	6296.4	6006.5	5277.0	4443.9	3610.8	2865.2	2269.1	1836.5	1574.1	1452.1	1442.9
20°	6333.3	5969.7	5069.8	4073.4	3120.6	2331.2	1776.6	1438.3	1272.6	1205.9	1201.3
22.5°	6386.2	5937.4	4855.8	3682.1	2639.6	1898.6	1461.3	1233.5	1146.1	1111.5	1106.9
25°	6471.3	5921.3	4628.0	3274.8	2207.0	1587.9	1272.6	1132.3	1081.6	1058.6	1056.3
27.5°	6614.0	5944.3	4414.0	2879.0	1854.9	1378.5	1166.8	1081.6	1044.8	1024.1	1021.8
30°	6798.1	6015.7	4188.4	2503.8	1581.0	1235.8	1102.3	1047.1	1017.2	996.5	996.5
32.5°	7104.2	6135.4	3951.4	2179.4	1385.4	1136.9	1054.0	1017.2	991.9	975.8	973.5
35°	7555.3	6360.9	3730.5	1910.1	1245.0	1065.5	1012.6	985.0	966.6	957.4	957.4
37.5°	8211.2	6717.6	3534.8	1716.8	1159.9	1017.2	973.5	952.8	941.2	941.2	941.2
40°	9092.6	7210.1	3376.1	1587.9	1111.5	982.7	943.5	927.4	920.5	922.8	922.8
42.5°	10181.1	7849.8	3270.2	1498.2	1088.5	962.0	922.8	909.0	902.1	899.8	902.1
45°	11421.5	8577.1	3258.7	1431.4	1065.5	948.1	909.0	895.2	881.4	872.2	872.2
47.5°	12627.4	9315.8	3353.0	1408.4	1040.2	932.0	897.5	883.7	863.0	842.3	842.3
50°	13692.9	9944.1	3479.6	1417.6	1031.0	909.0	879.1	872.2	840.0	817.0	814.7
52.5°	14539.8	10427.3	3583.2	1445.2	1040.2	892.9	856.1	858.4	823.9	798.6	796.3
55°	15218.7	10744.9	3555.6	1472.9	1060.9	883.7	835.4	840.0	812.4	787.1	787.1
57.5°	15515.6	10627.6	3249.5	1449.8	1077.0	886.0	819.3	837.7	814.7	791.7	791.7
60°	14878.1	9585.0	2676.4	1348.6	1056.3	879.1	812.4	846.9	844.6	821.6	819.3
62.5°	12949.6	7718.7	2075.8	1199.0	985.0	844.6	794.0	844.6	869.9	863.0	860.7
65°	9980.9	5497.9	1585.6	1037.9	888.3	787.1	745.6	791.7	826.2	835.4	833.1
67.5°	6478.2	3369.1	1222.0	886.0	780.2	720.3	683.5	704.2	711.1	711.1	706.5
70°	<i>3185.0</i>	<i>1813.4</i>	<i>973.5</i>	<i>745.6</i>	<i>669.7</i>	<i>649.0</i>	<i>628.3</i>	<i>616.8</i>	<i>605.3</i>	<i>596.0</i>	<i>596.0</i>
72.5°	1571.8	1185.2	800.9	630.6	577.6	568.4	563.8	550.0	540.8	529.3	524.7
75°	1162.2	964.3	681.2	531.6	497.1	487.9	497.1	485.6	483.3	474.1	469.5
77.5°	955.1	821.6	586.8	455.7	425.7	409.6	423.4	425.7	428.0	414.2	409.6
80°	775.5	695.0	490.2	377.4	349.8	338.3	347.5	365.9	370.5	349.8	340.6
82.5°	559.2	568.4	395.8	294.6	271.6	262.4	280.8	303.8	308.4	278.5	271.6
85°	469.5	474.1	303.8	209.4	186.4	172.6	202.5	225.5	241.6	211.7	204.8
87.5°	195.6	278.5	174.9	117.4	103.6	89.8	108.2	119.7	145.0	133.5	131.2
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)