

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: P192068

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192068
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-SL4-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 61414 lumens
Efficiency: N/A
Efficacy: 96.0 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): 640
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

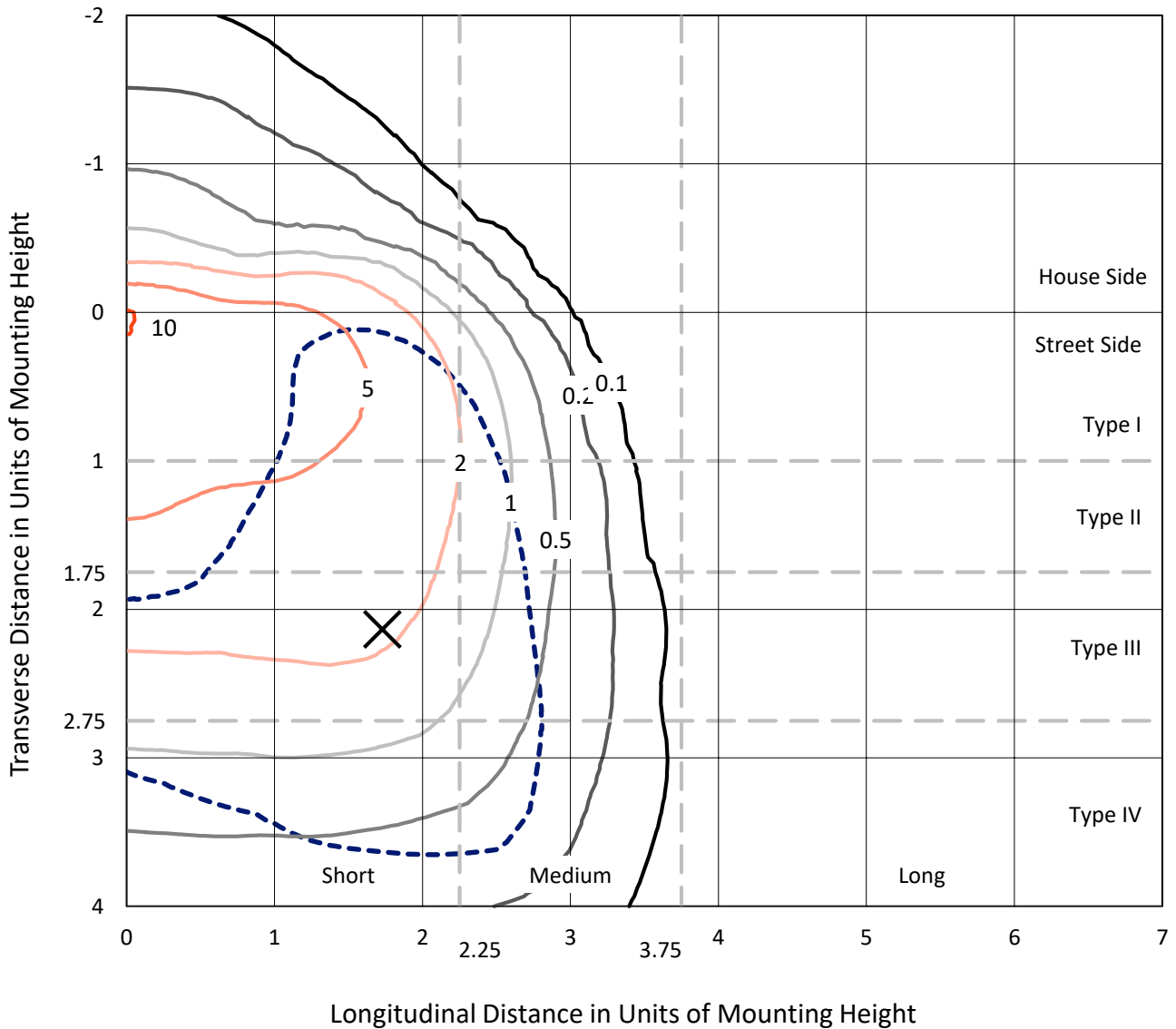


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

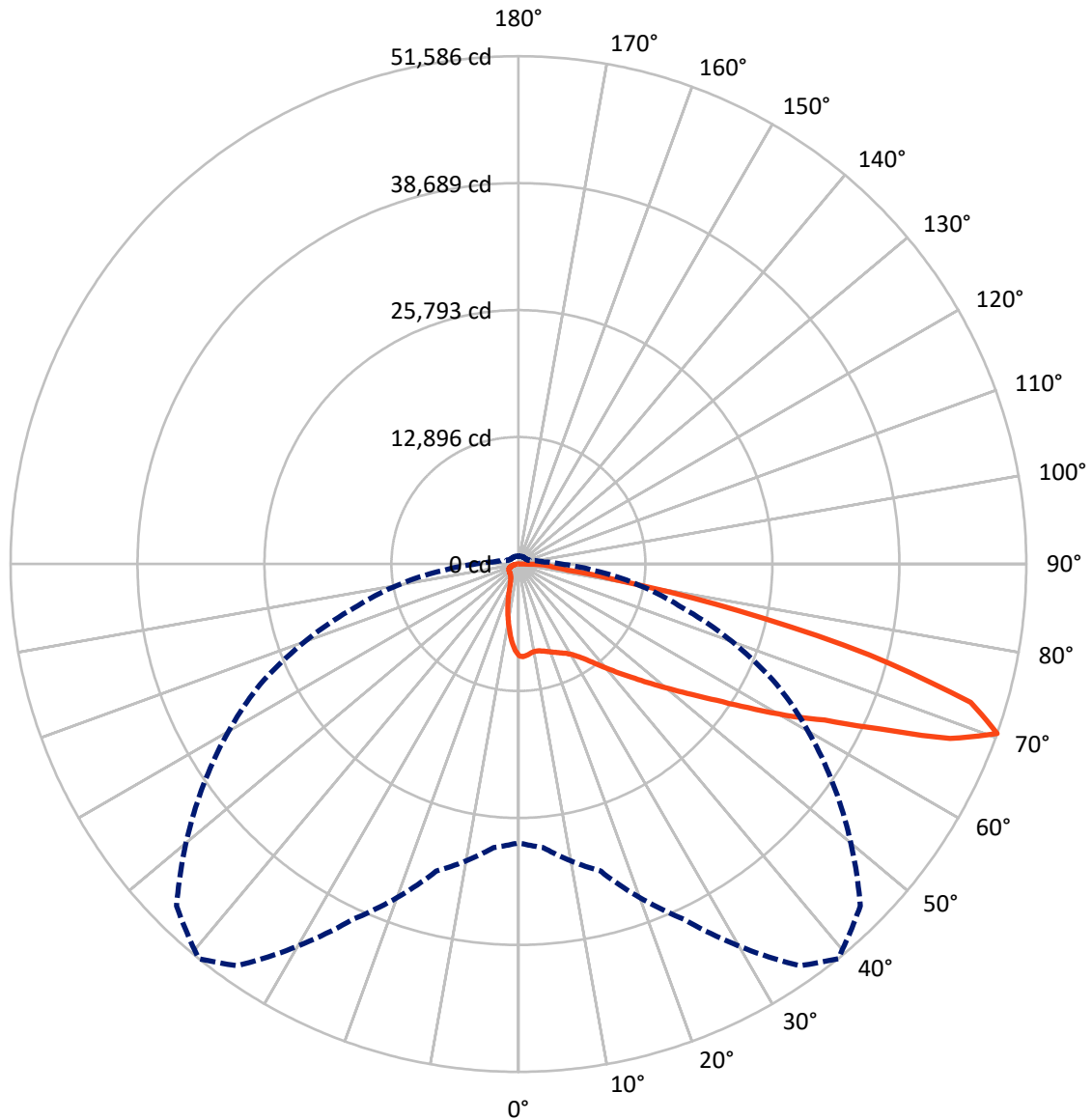


Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - Semi-Cutoff

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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	6984.8	0.0	6984.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	54429.1	0.0	54429.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	61414.0	0.0	61414.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.1	1.3
10°-20°	2000.0	3.3
20°-30°	3114.1	5.1
30°-40°	4851.3	7.9
40°-50°	8144.4	13.3
50°-60°	12938.1	21.1
60°-70°	17258.0	28.1
70°-80°	10421.7	17.0
80°-90°	1886.2	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°	61414.0	100.0
0°-180°	61414.0	100.0



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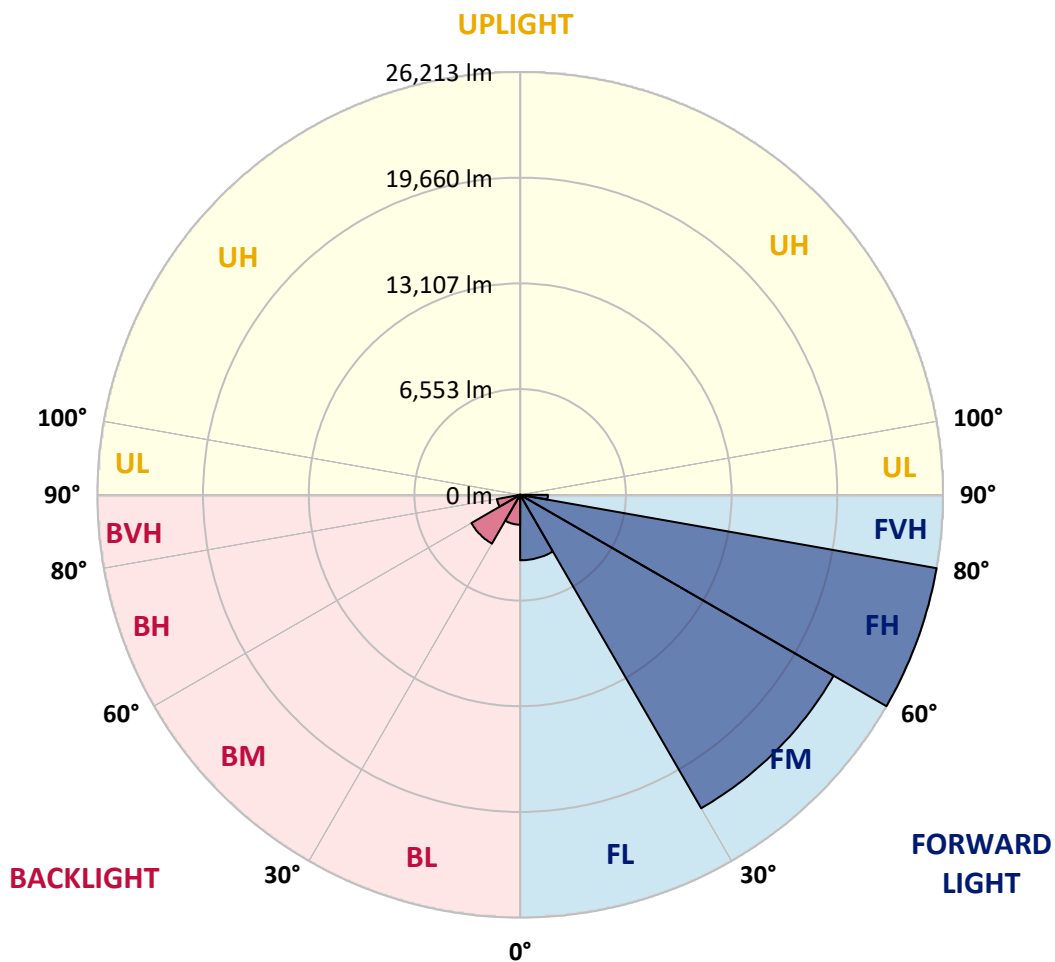
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4061.4	6.6			
FM	(30°-60°)	22438.3	36.5			
FH	(60°-80°)	26213.3	42.7			G5
FVH	(80°-90°)	1716.2	2.8			G5
BL	(0°-30°)	1852.9	3.0	B3/2500		
BM	(30°-60°)	3495.5	5.7	B3/5000		
BH	(60°-80°)	1466.4	2.4	B3/2500		G3/2500
BVH	(80°-90°)	170.0	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°	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6
2.5°	9504.7	9501.6	9476.6	9457.9	9442.2	9436.0	9448.5	9401.7	9361.1	9311.1	9258.0
5°	9432.9	9429.8	9389.2	9351.7	9314.2	9301.7	9298.6	9214.3	9164.4	9089.4	8989.5
7.5°	9354.8	9339.2	9286.1	9223.7	9158.1	9126.9	9095.7	8986.4	8930.2	8855.2	8739.7
10°	9273.6	9254.9	9204.9	9142.5	9080.0	9033.2	8980.1	8874.0	8814.6	8758.4	8624.2
12.5°	9189.3	9173.7	9161.2	9133.1	9089.4	9048.8	9008.2	8917.7	8855.2	8789.7	8633.5
15°	9176.8	9170.6	9198.7	9217.4	9192.5	9167.5	9123.8	9045.7	8980.1	8914.6	8711.6
17.5°	9276.8	9273.6	9345.5	9395.4	9382.9	9339.2	9279.9	9192.5	9139.4	9083.2	8830.3
20°	9495.3	9510.9	9598.4	9663.9	9601.5	9539.0	9442.2	9320.5	9292.4	9267.4	8952.0
22.5°	9907.5	9923.1	9985.6	10010.5	9848.2	9757.6	9623.4	9467.2	9448.5	9467.2	9098.8
25°	10550.7	10535.1	10525.7	10432.1	10135.4	9994.9	9823.2	9660.8	9670.2	9754.5	9304.9
27.5°	11403.1	11318.8	11187.7	10906.7	10435.2	10279.1	10069.9	9920.0	9979.3	10141.7	9614.0
30°	12286.8	12193.1	11890.2	11431.2	10828.6	10656.9	10422.7	10254.1	10410.2	10666.2	10026.1
32.5°	13104.9	13092.4	12649.0	12058.9	11371.9	11222.0	10987.9	10797.4	11050.3	11440.6	10644.4
35°	13997.9	14026.0	13495.2	12786.4	12105.7	11949.6	11781.0	11637.3	11974.5	12511.6	11540.5
37.5°	14953.4	15009.6	14381.9	13582.6	12942.5	12876.9	12777.0	12714.6	13236.0	13979.2	12792.6
40°	16230.4	16174.2	15303.1	14481.9	13969.8	13966.7	13935.4	14010.4	14878.4	15896.3	14400.7
42.5°	17598.1	17432.6	16280.4	15446.7	15097.0	15203.1	15265.6	15571.6	16854.9	18225.7	16361.6
45°	19071.8	18700.3	17295.2	16467.7	16349.1	16573.9	16786.2	17451.3	19181.1	20876.6	18509.8
47.5°	20249.0	19889.9	18344.3	17538.7	17797.9	18138.2	18547.3	19599.5	21785.2	23615.0	20629.9
50°	21176.4	20942.2	19402.8	18787.7	19393.5	19918.0	20586.2	22031.9	24495.5	26281.6	22594.0
52.5°	22075.6	21900.8	20470.7	20067.9	21266.9	21991.3	22900.0	24642.3	27274.5	28904.4	24245.7
55°	22887.5	22762.6	21619.8	21663.5	23471.4	24414.3	25557.1	27614.8	30303.3	31243.1	25644.6
57.5°	23802.3	23643.1	22931.2	23665.0	26303.4	27527.4	29013.7	30955.8	33144.7	33322.6	26709.3
60°	24723.5	24586.1	24386.2	25975.6	29900.5	31186.9	32595.1	34193.8	36026.7	34936.9	26646.9
62.5°	25522.8	25538.4	25891.2	28401.7	33422.6	34912.0	36629.3	38209.3	38633.9	35218.0	24676.6
65°	26877.9	27124.6	28176.9	31836.4	38381.0	40373.1	42480.8	42227.8	39355.2	32592.0	20452.0
67.5°	28489.1	28923.1	31055.8	36413.9	44647.7	47292.4	48107.4	43136.5	36466.9	26493.9	14578.7
70°	28326.7	28923.1	32298.5	39826.7	49812.2	51585.8	49112.8	39039.8	28957.5	17307.7	7743.6
72.5°	25154.4	26006.8	29766.2	38262.3	48185.4	48029.3	42636.9	29104.2	17204.6	6950.5	3025.6
75°	19171.8	20033.6	23268.4	30228.3	38084.4	36772.9	30253.3	16077.4	6529.0	2760.2	1907.8
77.5°	11028.4	11696.6	14194.6	18537.9	24161.4	22815.6	16839.3	7150.4	3178.6	1923.4	1489.4
80°	6157.4	6529.0	8046.5	9404.8	11840.3	10853.6	7534.4	4443.2	2373.1	1395.7	1149.1
82.5°	4867.9	5198.9	6507.2	5932.6	5408.1	4989.7	4327.7	3956.1	1895.3	880.5	686.9
85°	4252.8	4568.1	5508.0	4671.2	3693.8	3387.8	3515.9	3893.7	1473.8	530.8	587.0
87.5°	3940.5	4362.0	4908.5	3600.2	2875.8	2547.9	3244.2	4268.4	474.6	331.0	237.3
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°	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6	9323.6
2.5°	9211.2	9161.2	9080.0	9008.2	8895.8	8836.5	8770.9	8724.1	8686.6	8655.4	8705.4
5°	8927.0	8833.4	8661.6	8477.4	8258.8	8087.1	7943.5	7809.2	7715.5	7653.1	7696.8
7.5°	8658.5	8505.5	8237.0	7902.9	7528.2	7209.7	6947.4	6716.4	6557.1	6454.1	6494.7
10°	8505.5	8315.0	7899.8	7375.2	6822.5	6326.1	5913.9	5557.9	5311.3	5170.8	5192.6
12.5°	8468.0	8221.4	7646.8	6925.6	6169.9	5479.9	4899.1	4405.8	4059.2	3878.1	3884.3
15°	8496.2	8180.8	7409.5	6494.7	5539.2	4668.0	3943.6	3344.1	2941.3	2735.3	2732.1
17.5°	8543.0	8149.6	7159.7	6029.4	4899.1	3887.4	3078.7	2491.7	2135.7	1970.3	1957.8
20°	8592.9	8099.6	6878.7	5526.7	4234.0	3163.0	2410.5	1951.5	1726.7	1636.2	1629.9
22.5°	8664.8	8055.9	6588.3	4995.9	3581.4	2576.0	1982.7	1673.6	1555.0	1508.1	1501.9
25°	8780.3	8034.0	6279.2	4443.2	2994.4	2154.5	1726.7	1536.2	1467.5	1436.3	1433.2
27.5°	8973.9	8065.3	5988.8	3906.2	2516.7	1870.3	1583.1	1467.5	1417.6	1389.5	1386.4
30°	9223.7	8162.1	5682.8	3397.2	2145.1	1676.7	1495.6	1420.7	1380.1	1352.0	1352.0
32.5°	9639.0	8324.4	5361.2	2956.9	1879.7	1542.5	1430.1	1380.1	1345.8	1323.9	1320.8
35°	10251.0	8630.4	5061.5	2591.6	1689.2	1445.7	1373.9	1336.4	1311.4	1298.9	1298.9
37.5°	11140.9	9114.4	4796.1	2329.3	1573.7	1380.1	1320.8	1292.7	1277.1	1277.1	1277.1
40°	12336.7	9782.6	4580.6	2154.5	1508.1	1333.3	1280.2	1258.3	1249.0	1252.1	1252.1
42.5°	13813.7	10650.6	4437.0	2032.7	1476.9	1305.2	1252.1	1233.4	1224.0	1220.9	1224.0
45°	15496.7	11637.3	4421.4	1942.2	1445.7	1286.4	1233.4	1214.6	1195.9	1183.4	1183.4
47.5°	17132.8	12639.6	4549.4	1910.9	1411.3	1264.6	1217.8	1199.0	1170.9	1142.8	1142.8
50°	18578.5	13492.1	4721.1	1923.4	1398.9	1233.4	1192.8	1183.4	1139.7	1108.5	1105.3
52.5°	19727.6	14147.8	4861.6	1960.9	1411.3	1211.5	1161.5	1164.7	1117.8	1083.5	1080.4
55°	20648.7	14578.7	4824.2	1998.4	1439.4	1199.0	1133.4	1139.7	1102.2	1067.9	1067.9
57.5°	21051.5	14419.4	4408.9	1967.1	1461.3	1202.1	1111.6	1136.6	1105.3	1074.1	1074.1
60°	20186.6	13005.0	3631.4	1829.7	1433.2	1192.8	1102.2	1149.1	1145.9	1114.7	1111.6
62.5°	17570.0	10472.7	2816.4	1626.8	1336.4	1145.9	1077.2	1145.9	1180.3	1170.9	1167.8
65°	13542.0	7459.5	2151.4	1408.2	1205.3	1067.9	1011.7	1074.1	1121.0	1133.4	1130.3
67.5°	8789.7	4571.2	1658.0	1202.1	1058.5	977.3	927.4	955.5	964.8	964.8	958.6
70°	4321.5	2460.5	1320.8	1011.7	908.6	880.5	852.4	836.8	821.2	808.7	808.7
72.5°	2132.6	1608.1	1086.6	855.5	783.7	771.2	765.0	746.3	733.8	718.2	711.9
75°	1576.8	1308.3	924.2	721.3	674.4	662.0	674.4	658.8	655.7	643.2	637.0
77.5°	1295.8	1114.7	796.2	618.2	577.7	555.8	574.5	577.7	580.8	562.0	555.8
80°	1052.3	943.0	665.1	512.1	474.6	459.0	471.5	496.5	502.7	474.6	462.1
82.5°	758.8	771.2	537.1	399.7	368.4	356.0	380.9	412.2	418.4	377.8	368.4
85°	637.0	643.2	412.2	284.1	252.9	234.2	274.8	306.0	327.9	287.3	277.9
87.5°	265.4	377.8	237.3	159.2	140.5	121.8	146.8	162.4	196.7	181.1	178.0
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)