

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: P269478

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40129.8 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

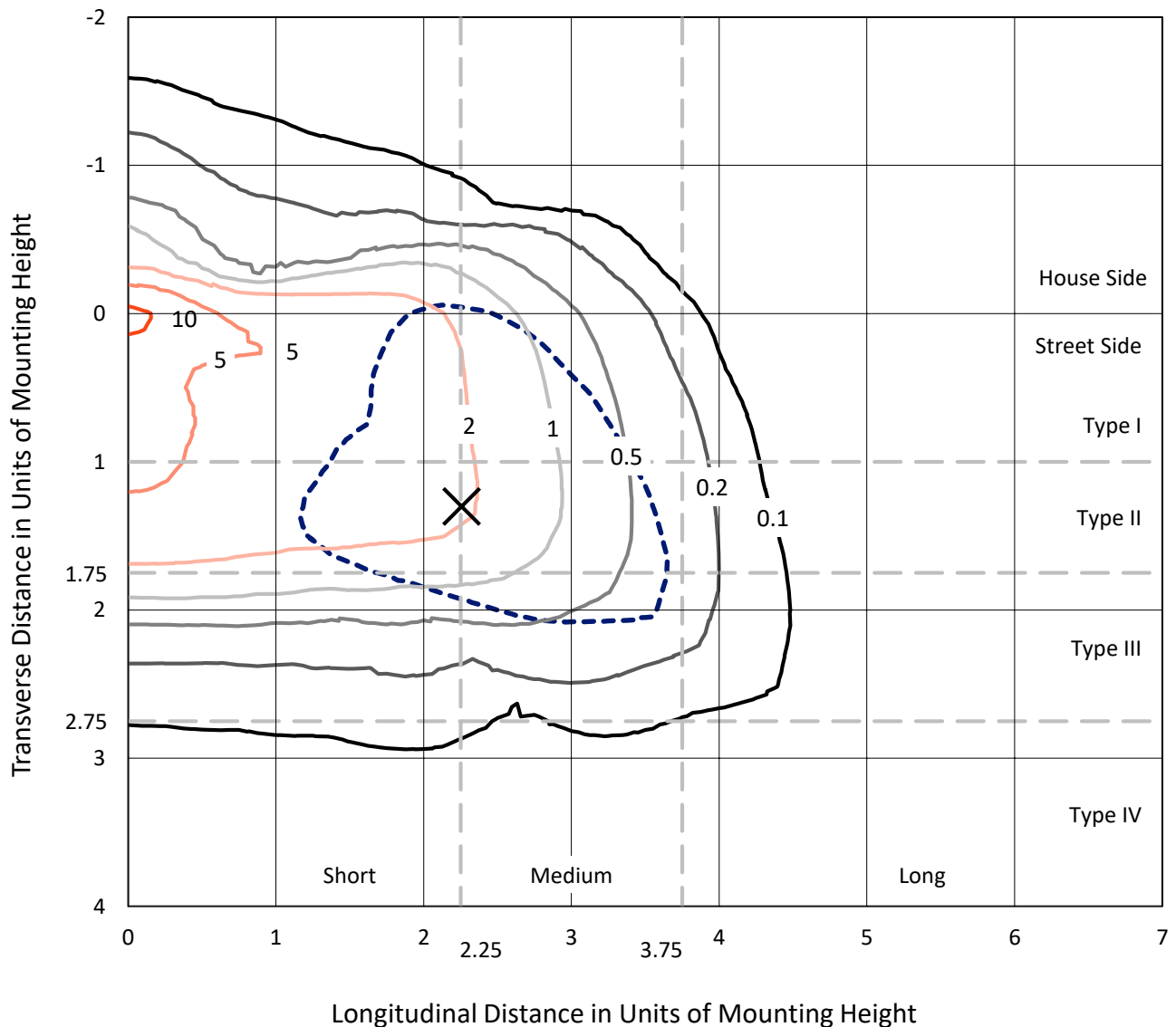


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

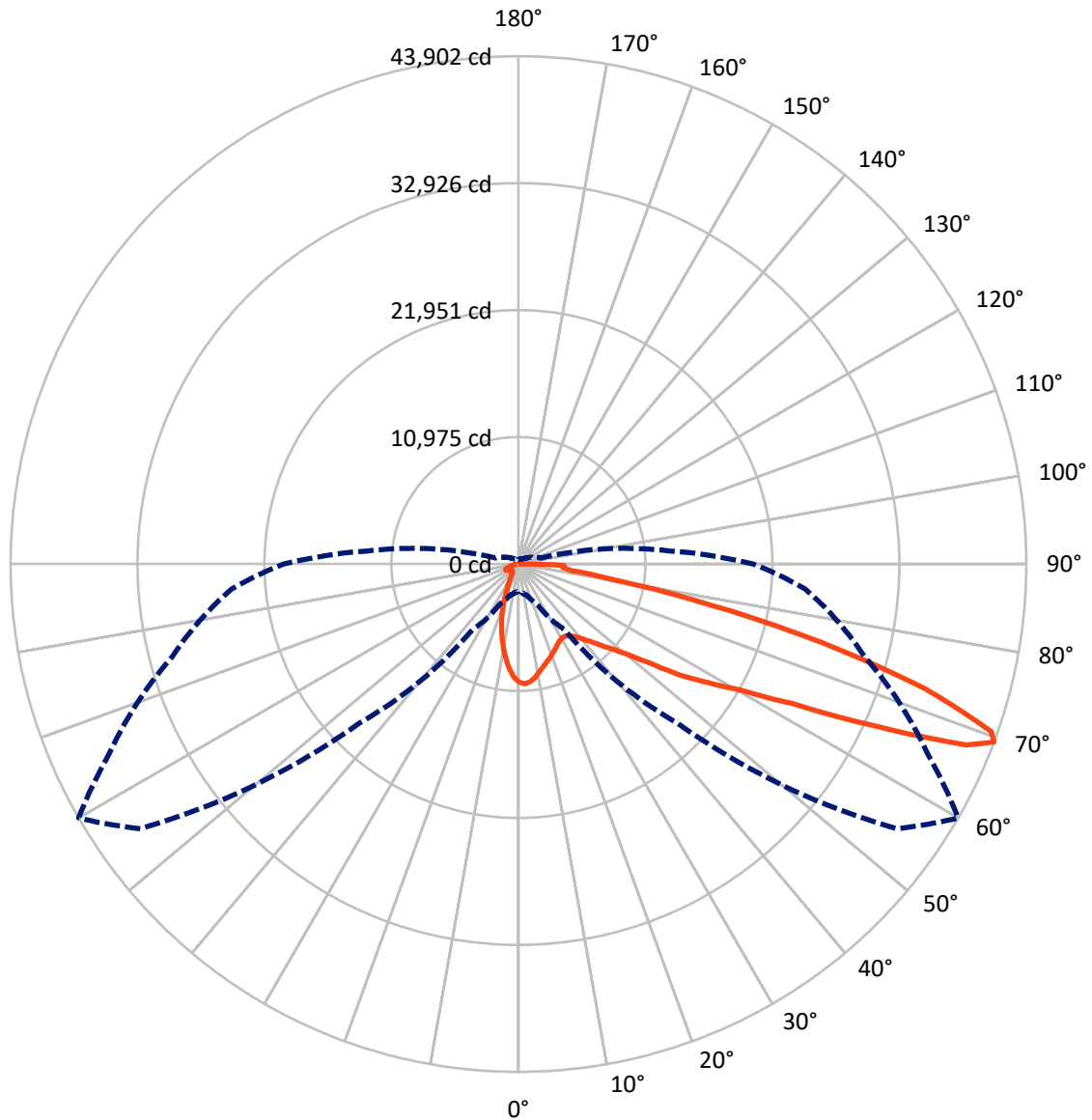


Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5709.2	0.0	5709.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	34420.6	0.0	34420.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	40129.8	0.0	40129.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.6	2.2
10°-20°	1842.1	4.6
20°-30°	2347.2	5.8
30°-40°	3226.8	8.0
40°-50°	5235.8	13.0
50°-60°	8396.9	20.9
60°-70°	11175.6	27.8
70°-80°	6034.0	15.0
80°-90°	1006.8	2.5
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°	40129.8	100.0
0°-180°	40129.8	100.0



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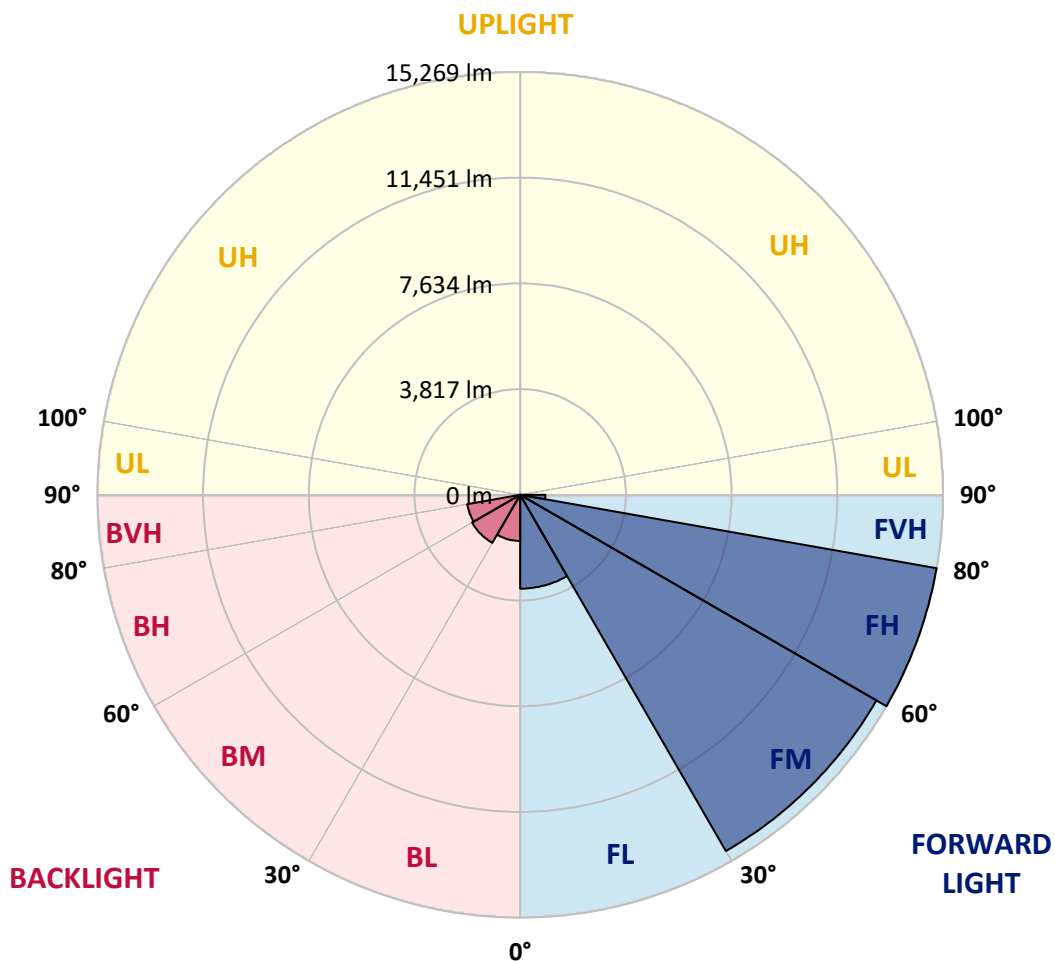
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3388.4	8.4			
FM	(30°-60°)	14853.7	37.0			
FH	(60°-80°)	15268.6	38.0			G5
FVH	(80°-90°)	909.9	2.3			G5
BL	(0°-30°)	1665.6	4.2	B3/2500		
BM	(30°-60°)	2005.8	5.0	B2/2500		
BH	(60°-80°)	1941.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	97.0	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6
2.5°	10435.0	10458.2	10448.6	10442.7	10460.3	10433.2	10377.0	10359.4	10332.3	10268.3	10159.8
5°	10043.5	10113.3	10109.3	10161.7	10248.9	10272.2	10247.1	10250.9	10200.6	10121.1	9940.7
7.5°	9366.9	9396.0	9411.5	9525.8	9684.8	9812.7	9921.3	9956.3	9933.0	9865.1	9632.4
10°	8669.1	8692.3	8729.2	8862.9	9064.4	9241.0	9446.3	9564.7	9615.1	9603.4	9343.7
12.5°	8070.1	8093.3	8141.8	8293.1	8533.4	8750.5	9048.9	9196.4	9316.5	9388.2	9109.2
15°	7533.0	7583.5	7630.1	7804.5	8074.0	8358.9	8696.2	8882.4	9068.4	9229.2	8901.7
17.5°	7114.3	7164.8	7191.9	7350.9	7637.7	7986.7	8382.2	8601.2	8833.8	9097.5	8696.2
20°	6872.0	6895.3	6883.7	6972.9	7230.6	7600.9	8070.1	8324.1	8605.0	8973.3	8490.7
22.5°	6804.2	6806.2	6763.5	6753.7	6920.5	7232.7	7736.7	8044.9	8389.9	8892.1	8314.4
25°	6969.1	6963.1	6846.8	6751.9	6769.3	6951.5	7414.8	7773.5	8209.6	8874.5	8178.6
27.5°	7335.4	7352.7	7180.3	7001.8	6825.5	6819.8	7170.6	7548.5	8062.3	8954.0	8120.5
30°	7849.1	7878.1	7694.1	7467.3	7135.6	6862.3	7075.6	7414.8	7971.2	9118.8	8110.7
32.5°	8411.2	8442.2	8302.7	8064.3	7630.1	7126.1	7141.5	7426.5	7967.2	9349.5	8176.7
35°	9010.2	9045.2	8973.3	8771.8	8289.1	7612.5	7393.5	7614.6	8093.3	9702.4	8353.1
37.5°	9679.1	9733.3	9752.7	9560.8	9045.2	8254.3	7806.5	7971.2	8378.3	10192.8	8676.8
40°	10642.5	10718.0	10712.3	10437.0	9911.7	9120.8	8444.2	8486.8	8822.3	10847.9	9194.4
42.5°	12488.0	12503.5	12020.8	11421.8	10865.4	10031.8	9196.4	9161.5	9434.8	11677.6	9956.3
45°	14835.5	14771.5	13697.5	12540.2	11861.8	11078.6	10175.3	10004.8	10212.1	12689.5	10909.9
47.5°	16783.8	16636.4	15279.5	13682.1	12916.4	12216.6	11324.8	11026.2	11140.7	13837.1	12142.8
50°	17460.3	17349.8	16225.4	14632.0	13914.7	13604.6	12739.9	12317.4	12348.5	15205.7	13587.0
52.5°	17314.9	17299.4	16549.1	15258.2	14849.1	15062.3	14744.4	14172.5	13870.1	16725.5	15145.7
55°	16971.8	17004.6	16733.3	15987.0	15917.2	16469.6	17363.2	16940.7	16000.5	18258.9	16756.5
57.5°	15779.5	15864.8	16461.9	16903.9	17636.7	18458.6	19472.4	19352.2	18293.9	19916.3	18671.8
60°	12712.9	12910.5	14511.8	16725.5	19406.5	21977.0	22430.6	22151.5	20658.9	21973.1	21201.5
62.5°	8907.6	9112.9	11016.6	14480.8	19115.8	25951.0	27718.9	26515.1	24055.2	25003.1	24475.8
65°	4768.7	4867.6	6321.6	10047.4	16138.2	26771.0	35447.7	33615.8	29432.5	28738.5	27276.9
67.5°	2630.5	2684.9	3241.3	5073.1	10336.2	23574.3	40371.5	41755.7	36153.4	31225.7	26767.1
69°	2378.5	2428.9	2793.4	3842.1	6916.6	19491.9	39890.9	43901.6	39099.9	30979.5	24882.8
70°	2326.3	2372.8	2700.3	3541.7	5598.4	16066.5	38280.0	43353.0	39801.7	30097.4	23239.0
72.5°	2093.6	2144.1	2462.0	3181.1	4784.3	8009.9	30322.3	36655.5	36135.9	26096.3	17626.9
75°	1952.0	1998.5	2537.5	3115.2	4580.7	5069.2	19990.1	27015.2	26563.5	18255.0	9504.5
77.5°	835.6	831.7	1176.7	2636.3	4648.5	4908.2	10741.4	16876.7	15397.7	7802.6	2729.4
80°	558.2	548.7	558.2	775.3	4262.7	4935.5	5627.5	8566.2	6470.9	1988.8	1345.3
82.5°	480.8	473.0	490.5	473.0	1498.5	5633.4	4784.3	4555.6	3076.4	1130.2	666.8
85°	323.7	310.2	422.7	424.4	707.5	5005.3	5389.1	3848.0	2489.1	670.8	329.6
87.5°	155.0	151.3	246.1	300.5	414.8	2033.6	6046.2	3942.9	2510.4	343.2	157.1
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°	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6	10225.6
2.5°	10126.9	10047.4	9969.7	9876.8	9779.8	9671.3	9617.0	9562.6	9549.2	9533.6	9479.4
5°	9847.7	9735.2	9541.3	9328.2	9103.2	8884.2	8717.5	8612.8	8533.4	8492.7	8420.9
7.5°	9487.1	9322.3	8983.1	8614.7	8236.7	7891.7	7593.2	7405.2	7226.9	7143.4	7048.5
10°	9143.9	8897.8	8370.5	7827.7	7285.0	6763.5	6273.0	5926.1	5617.8	5445.3	5323.1
12.5°	8849.4	8512.0	7781.2	7046.6	6302.1	5559.7	4824.9	4247.2	3764.5	3510.7	3380.9
15°	8562.5	8155.4	7220.9	6288.6	5332.9	4323.0	3357.5	2702.3	2303.0	2144.1	2089.7
17.5°	8302.7	7781.2	6658.9	5524.8	4332.5	3111.3	2256.5	1895.9	1742.7	1690.4	1673.0
20°	8021.5	7403.2	6075.2	4726.2	3289.7	2175.1	1762.1	1603.1	1541.1	1525.6	1517.9
22.5°	7750.1	7031.0	5517.0	3871.2	2363.0	1678.8	1514.0	1448.1	1438.4	1451.9	1451.9
25°	7519.5	6697.7	4914.2	2977.5	1734.9	1413.2	1355.1	1339.6	1376.4	1426.8	1436.4
27.5°	7347.0	6424.3	4272.5	2198.3	1382.1	1229.1	1227.1	1252.2	1343.3	1440.3	1459.7
30°	7228.8	6164.4	3586.3	1585.7	1159.3	1081.6	1112.7	1167.0	1300.7	1438.4	1475.1
32.5°	7168.7	5972.7	2871.0	1227.1	992.4	949.9	1002.1	1068.2	1200.0	1327.9	1376.4
35°	7215.1	5831.1	2196.4	1023.6	876.1	843.2	897.5	961.5	1039.1	1093.3	1130.2
37.5°	7389.6	5774.8	1657.5	916.9	796.7	765.7	808.4	845.1	876.1	891.7	909.2
40°	7765.7	5834.9	1327.9	862.6	752.2	713.3	730.9	744.3	763.7	779.3	787.0
42.5°	8320.1	6015.2	1190.3	841.4	728.9	672.7	668.8	674.5	699.8	728.9	734.8
45°	9095.5	6333.1	1180.6	854.8	717.2	639.8	622.3	630.0	668.8	713.3	721.1
47.5°	10086.1	6817.7	1258.0	895.6	727.0	622.3	593.2	602.9	651.4	711.5	721.1
50°	11286.0	7494.3	1388.1	955.6	769.6	626.2	583.4	589.3	639.8	705.6	715.3
52.5°	12703.1	8453.9	1529.5	1013.8	814.1	651.4	591.3	577.7	624.2	682.4	694.0
55°	14279.2	9684.8	1674.9	1066.2	837.4	682.4	606.7	562.2	595.1	643.5	653.2
57.5°	16213.8	11406.3	1926.9	1116.7	852.9	703.7	622.3	546.7	558.2	593.2	601.0
60°	18832.7	13841.1	2370.7	1200.0	887.9	711.5	620.3	533.1	521.5	540.9	544.7
62.5°	21971.1	16485.2	2741.1	1304.6	945.9	717.2	608.7	523.4	490.5	490.5	494.2
65°	23834.1	17192.8	2535.6	1391.8	994.5	711.5	595.1	513.7	467.2	445.9	447.7
67.5°	22254.3	15120.5	2173.1	1409.4	992.4	684.2	573.7	496.3	443.9	411.0	409.0
69°	20274.9	13046.3	2010.2	1362.8	945.9	649.5	546.7	476.9	426.4	391.7	389.7
70°	18679.5	11780.5	1903.6	1312.3	895.6	624.2	525.4	459.5	413.0	380.0	376.1
72.5°	13581.2	7719.1	1626.4	1128.2	738.5	523.4	453.6	403.2	368.3	348.9	345.0
75°	6786.8	3681.3	1320.1	915.0	566.0	418.7	372.2	337.4	319.8	315.9	314.0
77.5°	2229.4	1686.5	944.1	682.4	420.6	327.6	300.5	275.3	271.4	283.1	279.2
80°	1225.2	980.9	599.0	451.7	286.9	240.3	236.6	222.9	228.8	248.1	244.2
82.5°	624.2	509.9	370.2	271.4	193.9	172.6	188.0	180.3	188.0	205.5	203.6
85°	308.2	279.2	234.5	164.7	128.0	110.5	133.8	139.5	143.5	157.1	157.1
87.5°	178.4	164.7	124.1	77.6	64.0	58.2	77.6	75.5	89.2	96.9	95.0
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)