

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: P383337

Luminaire Tested: **GLEON-SA6C-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA 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: 37446.3 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

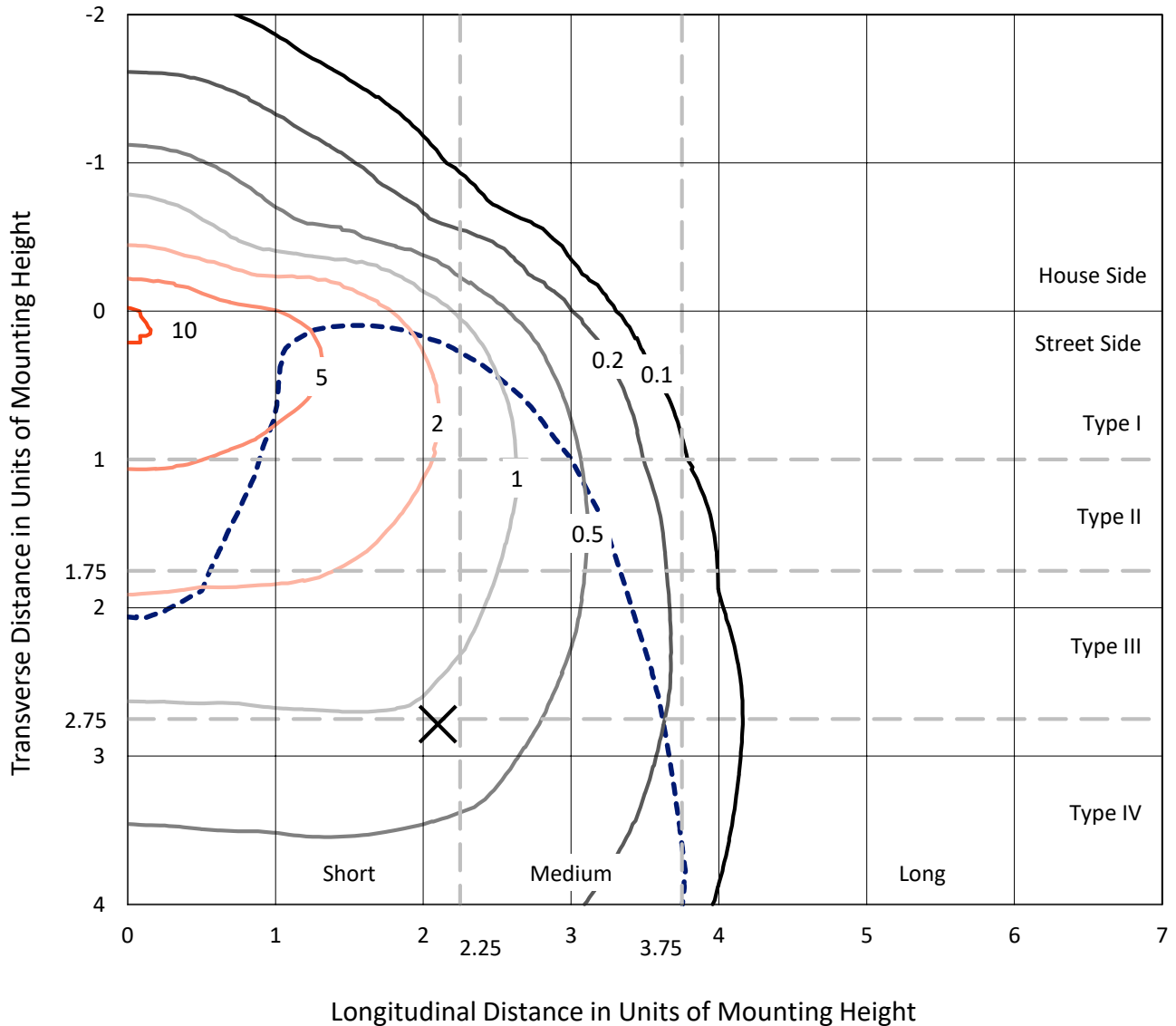
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

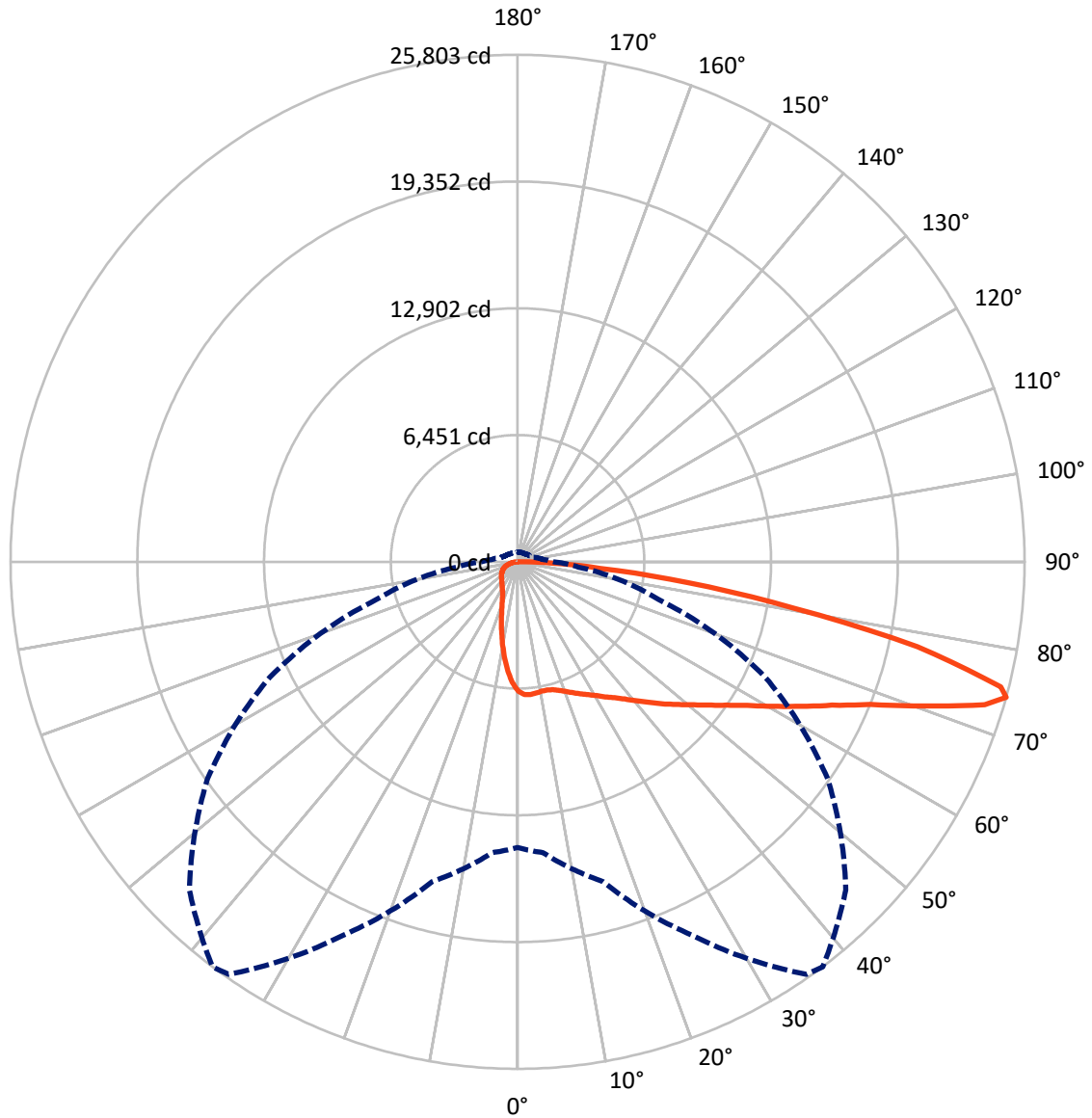
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5152.3	0.0	5152.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	32294.0	0.0	32294.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	37446.3	0.0	37446.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.0	1.6
10°-20°	1489.3	4.0
20°-30°	2294.7	6.1
30°-40°	3336.9	8.9
40°-50°	4911.3	13.1
50°-60°	6897.0	18.4
60°-70°	8729.5	23.3
70°-80°	7686.7	20.5
80°-90°	1519.8	4.1
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°	37446.3	100.0
0°-180°	37446.3	100.0

Coefficient of Utilization



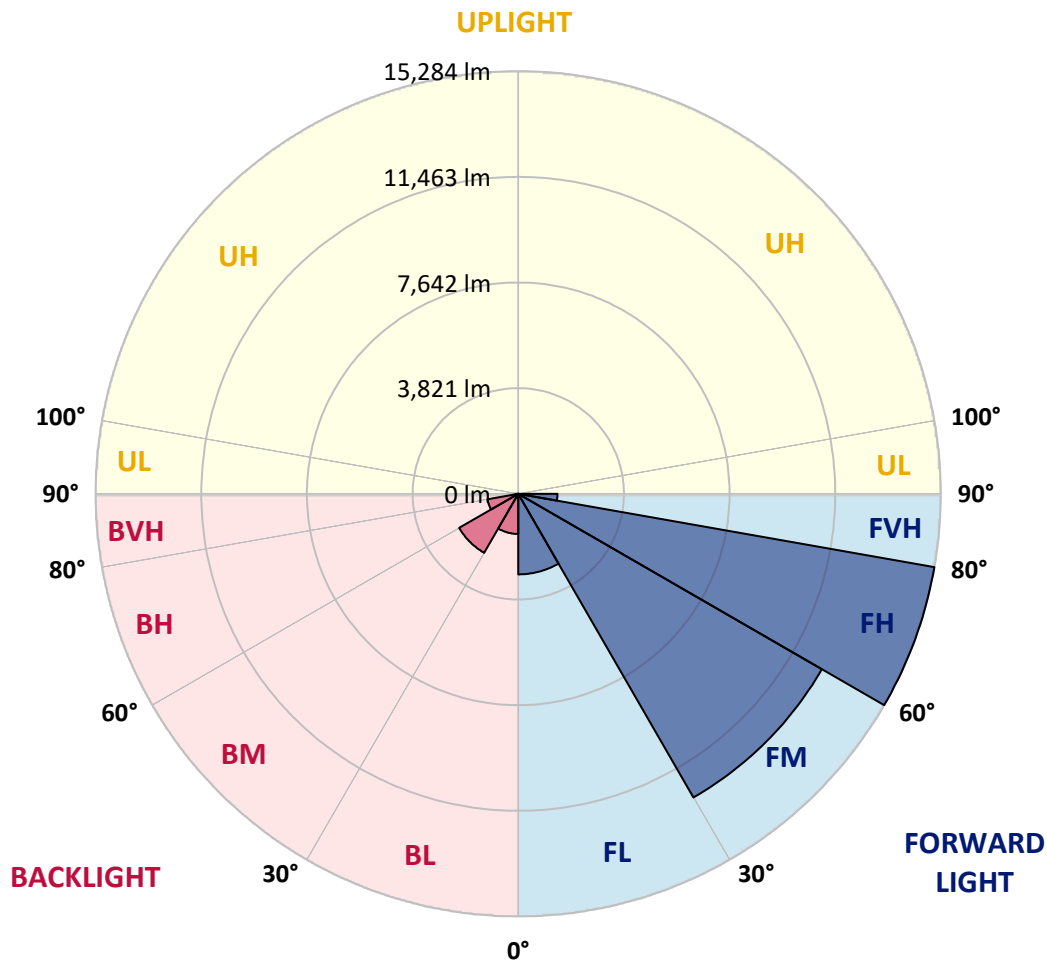
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2913.8	7.8			
FM (30°-60°)	12679.6	33.9			
FH (60°-80°)	15283.7	40.8			G5
FVH (80°-90°)	1416.9	3.8			G5
BL (0°-30°)	1451.3	3.9	B3/2500		
BM (30°-60°)	2465.6	6.6	B2/2500		
BH (60°-80°)	1132.5	3.0	B3/2500		G3/2500
BVH (80°-90°)	102.9	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°	37°	45°	55°	65°	75°	85°
0°	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9
2.5°	6823.5	6824.8	6823.5	6812.9	6787.8	6766.8	6749.6	6724.6	6669.1	6626.9	6563.6
5°	6888.0	6880.2	6874.9	6855.1	6815.6	6791.8	6758.8	6711.3	6620.3	6535.9	6433.0
7.5°	6857.8	6848.6	6836.6	6812.9	6768.1	6748.3	6702.1	6640.1	6530.6	6419.9	6272.1
10°	6764.1	6761.5	6756.1	6750.9	6712.6	6696.8	6654.6	6588.6	6480.5	6346.0	6173.2
12.5°	6659.9	6666.5	6687.6	6715.3	6698.1	6690.3	6663.8	6619.0	6508.2	6363.1	6154.7
15°	6594.0	6612.4	6669.1	6741.7	6756.1	6753.5	6746.9	6717.9	6600.6	6439.6	6196.9
17.5°	6571.5	6601.9	6710.0	6830.0	6872.3	6881.5	6884.1	6834.0	6703.4	6533.2	6240.4
20°	6612.4	6650.7	6809.0	6973.8	7041.1	7046.4	7034.5	6947.5	6801.0	6613.7	6264.2
22.5°	6736.4	6770.7	6968.5	7154.6	7231.0	7239.0	7203.4	7071.5	6903.9	6708.7	6297.2
25°	6975.1	7017.3	7215.2	7401.2	7440.7	7442.1	7390.6	7227.1	7038.5	6841.9	6368.4
27.5°	7286.5	7328.7	7506.7	7688.7	7667.7	7655.7	7585.9	7422.3	7213.9	7025.3	6495.0
30°	7633.4	7679.5	7848.4	7977.6	7927.5	7903.8	7847.1	7636.0	7458.0	7275.9	6688.9
32.5°	7992.1	8034.3	8182.1	8270.5	8207.1	8196.6	8110.9	7918.2	7775.8	7658.4	7002.8
35°	8360.2	8390.4	8535.6	8585.7	8501.3	8498.7	8474.9	8298.1	8208.4	8263.9	7459.3
37.5°	8736.1	8744.0	8868.0	8870.7	8845.6	8856.1	8881.2	8770.4	8795.5	8968.2	8052.9
40°	9071.1	9092.2	9181.9	9209.7	9253.2	9290.0	9415.4	9342.9	9536.7	9842.7	8791.5
42.5°	9319.1	9360.0	9503.7	9575.0	9716.1	9774.2	9951.0	10018.2	10408.6	10867.7	9669.9
45°	9528.8	9592.1	9823.0	9969.4	10208.2	10309.7	10563.0	10788.5	11393.9	11979.6	10594.7
47.5°	9755.7	9836.2	10125.1	10404.6	10729.2	10844.0	11304.2	11641.9	12445.3	13098.2	11466.5
50°	10089.4	10151.4	10433.7	10872.9	11277.9	11425.6	12062.7	12546.8	13513.7	14164.0	12222.4
52.5°	10555.1	10531.3	10770.1	11386.0	11929.5	12111.5	12872.6	13509.8	14596.6	15128.2	12860.8
55°	11023.3	10983.8	11151.3	11922.9	12689.3	12880.5	13764.4	14476.6	15626.8	15996.2	13350.1
57.5°	11544.4	11469.1	11610.3	12528.4	13554.6	13782.8	14762.8	15504.1	16639.9	16697.9	13661.4
60°	12081.2	11979.6	12137.9	13278.9	14653.3	14922.5	15931.5	16506.7	17594.9	17259.8	13761.7
62.5°	12550.7	12479.6	12723.5	14116.5	15891.9	16187.4	17079.1	17572.4	18536.7	17493.3	13400.2
65°	12961.0	12972.9	13395.0	15058.3	17273.0	17588.3	18395.5	18886.2	19277.9	17354.7	12554.7
67.5°	13450.3	13517.7	14237.9	16298.2	19011.5	19357.1	20310.8	20318.7	19692.2	16542.2	10890.1
70°	14164.0	14302.5	15397.3	18018.3	21483.4	21958.3	22694.3	21160.3	19110.4	14339.4	8568.6
72.5°	14797.2	15055.7	16630.6	19986.3	24496.2	24856.2	24088.5	20674.9	16679.5	10746.3	5338.2
74°	14539.9	14860.4	16854.9	20955.8	25630.5	25803.3	23617.6	19258.2	13906.8	7442.1	3102.4
75°	13985.9	14334.2	16527.7	20946.6	25486.8	25390.4	22480.6	17639.7	11453.4	5075.7	2064.3
77.5°	11287.1	11655.2	13926.5	17952.3	20897.8	20806.8	17269.0	11833.3	5016.4	1664.7	1048.6
80°	6562.3	6843.2	8645.0	11400.6	14091.4	14256.3	11357.1	5855.2	1973.3	935.2	711.0
82.5°	2915.1	3109.0	4176.1	5819.7	8503.9	8716.3	5947.7	3068.1	1218.8	568.5	427.4
85°	1912.7	2056.4	2535.2	2771.4	4049.5	4194.6	2911.2	2388.8	804.6	312.6	313.9
87.5°	1375.8	1514.2	1883.6	1644.8	1858.5	1759.6	1584.2	2210.7	323.2	178.1	105.5
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°	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9
2.5°	6535.9	6514.8	6467.3	6377.7	6327.5	6285.2	6215.4	6174.5	6156.0	6154.7	6162.7
5°	6373.6	6324.8	6202.2	6051.8	5931.8	5822.3	5686.4	5604.7	5546.6	5512.3	5521.6
7.5°	6185.0	6108.5	5916.0	5675.9	5483.3	5271.0	5061.2	4935.9	4838.3	4765.7	4778.9
10°	6055.8	5950.3	5669.3	5323.7	5003.2	4694.5	4405.7	4232.9	4095.6	3990.1	3998.0
12.5°	6012.2	5869.8	5480.7	5019.0	4569.2	4147.1	3769.9	3504.8	3363.5	3243.6	3252.8
15°	6018.8	5827.6	5322.4	4744.7	4178.7	3647.2	3189.4	2879.5	2688.3	2605.2	2606.5
17.5°	6024.1	5778.8	5156.2	4450.5	3792.2	3180.2	2683.0	2369.0	2188.3	2111.8	2113.1
20°	6007.0	5699.6	4950.4	4112.8	3388.7	2751.5	2270.1	2003.7	1866.4	1807.1	1807.1
22.5°	5984.5	5606.0	4718.3	3773.8	2990.3	2379.5	1974.6	1771.5	1692.3	1652.8	1651.4
25°	5995.1	5536.1	4480.8	3425.6	2623.6	2082.8	1778.0	1643.5	1590.8	1565.7	1564.4
27.5°	6051.8	5503.1	4261.8	3078.7	2303.1	1859.8	1646.1	1551.2	1516.9	1501.1	1501.1
30°	6154.7	5503.1	4033.7	2783.2	2036.6	1695.0	1544.6	1479.9	1456.2	1445.7	1445.7
32.5°	6334.1	5533.4	3813.4	2490.4	1824.2	1565.7	1460.2	1416.7	1398.2	1392.9	1392.9
35°	6642.8	5636.3	3598.4	2213.4	1652.8	1460.2	1379.7	1354.7	1341.5	1340.1	1344.1
37.5°	7076.7	5846.0	3396.5	2008.9	1531.5	1374.5	1312.5	1292.7	1284.8	1291.3	1296.6
40°	7622.8	6131.0	3213.2	1824.2	1439.1	1305.8	1250.4	1237.3	1233.3	1242.6	1250.4
42.5°	8282.3	6516.1	3062.8	1691.0	1367.9	1247.8	1197.7	1181.9	1177.9	1188.5	1199.0
45°	8996.0	6930.3	2957.3	1592.1	1312.5	1204.3	1151.6	1134.3	1126.4	1131.7	1143.7
47.5°	9644.9	7322.1	2915.1	1522.1	1259.7	1167.3	1110.7	1089.5	1076.3	1073.7	1082.9
50°	10192.3	7613.5	2934.9	1479.9	1217.4	1126.4	1071.1	1047.3	1027.5	1015.7	1022.3
52.5°	10590.7	7797.0	2953.4	1461.5	1184.6	1081.6	1027.5	1005.1	978.8	958.9	958.9
55°	10879.5	7839.2	2912.5	1447.0	1159.4	1032.8	978.8	957.6	931.3	908.8	906.2
57.5°	10993.0	7720.4	2760.7	1425.9	1142.3	986.7	927.3	911.4	889.1	862.7	861.3
60°	10840.0	7353.7	2467.9	1381.0	1119.9	948.4	875.8	865.3	854.8	829.7	828.3
62.5°	10225.3	6549.1	2089.4	1290.0	1075.0	907.5	828.3	833.6	834.9	817.8	815.2
65°	9110.7	5443.7	1720.0	1171.3	1007.7	858.7	779.5	804.6	819.1	816.5	812.5
67.5°	7490.9	4236.8	1457.6	1046.0	919.3	791.4	726.8	755.9	767.7	776.9	774.3
70°	5559.8	2987.7	1205.6	914.1	812.5	712.3	658.2	672.7	664.8	675.4	679.3
72.5°	3099.8	1792.6	982.7	782.2	701.7	619.9	581.7	579.0	561.9	561.9	561.9
74°	1859.8	1315.1	864.0	700.4	634.5	559.3	526.3	514.4	498.6	500.0	498.6
75°	1495.8	1130.4	792.7	646.3	587.0	523.6	490.6	474.9	463.0	463.0	461.7
77.5°	944.4	858.7	638.4	514.4	469.6	431.3	408.9	387.8	387.8	386.5	385.2
80°	713.6	683.3	497.3	389.1	360.1	331.1	316.5	307.3	307.3	311.3	310.0
82.5°	489.3	514.4	349.5	271.7	257.2	236.1	233.4	234.7	230.8	225.5	224.2
85°	357.4	386.5	236.1	171.5	157.0	143.7	154.4	159.6	153.1	141.1	135.8
87.5°	137.2	253.3	126.6	71.3	66.0	56.7	66.0	68.6	73.9	58.0	59.3
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)