

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: P383007

Luminaire Tested: **GLEON-SA3C-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19739.5 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

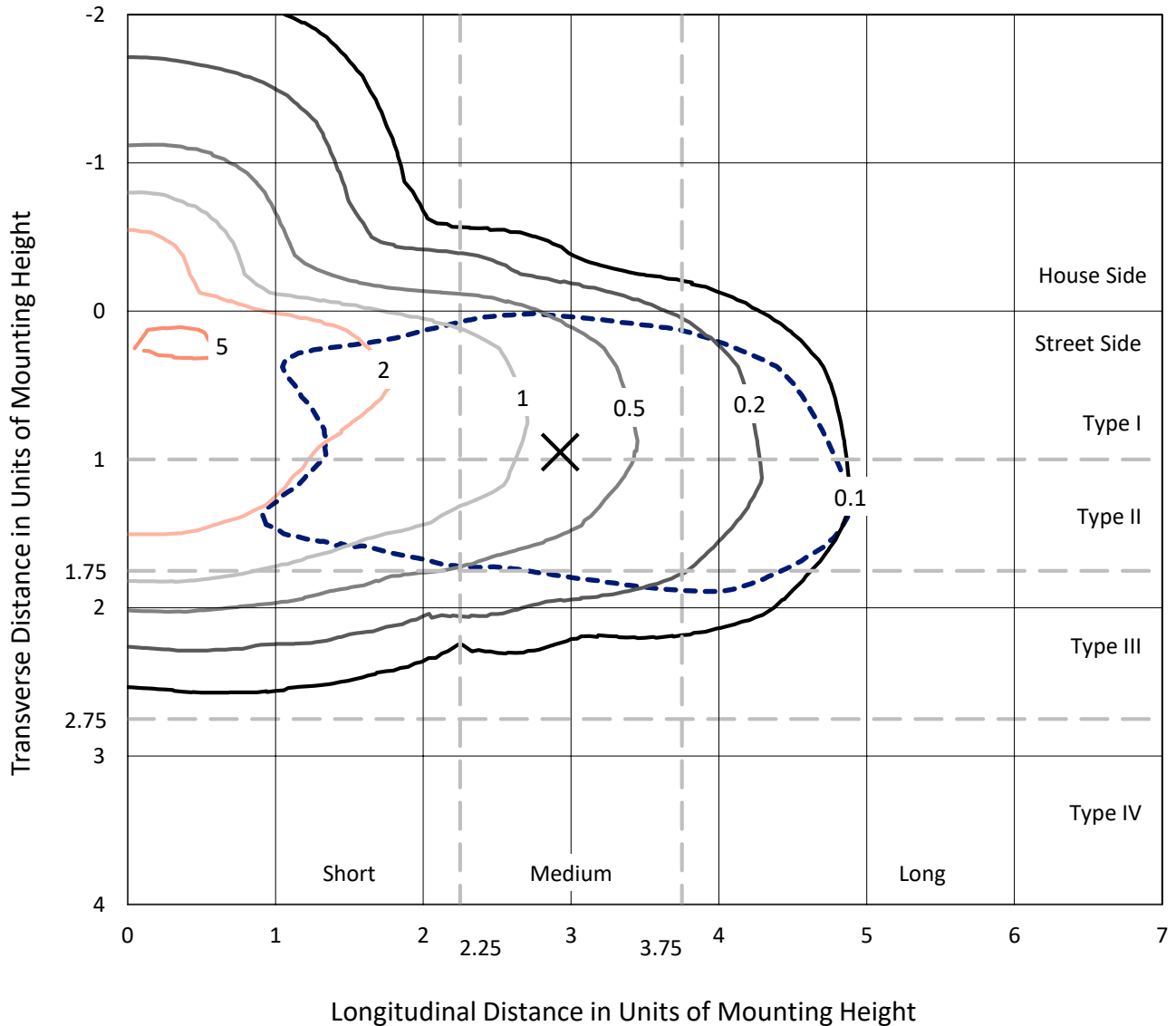
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

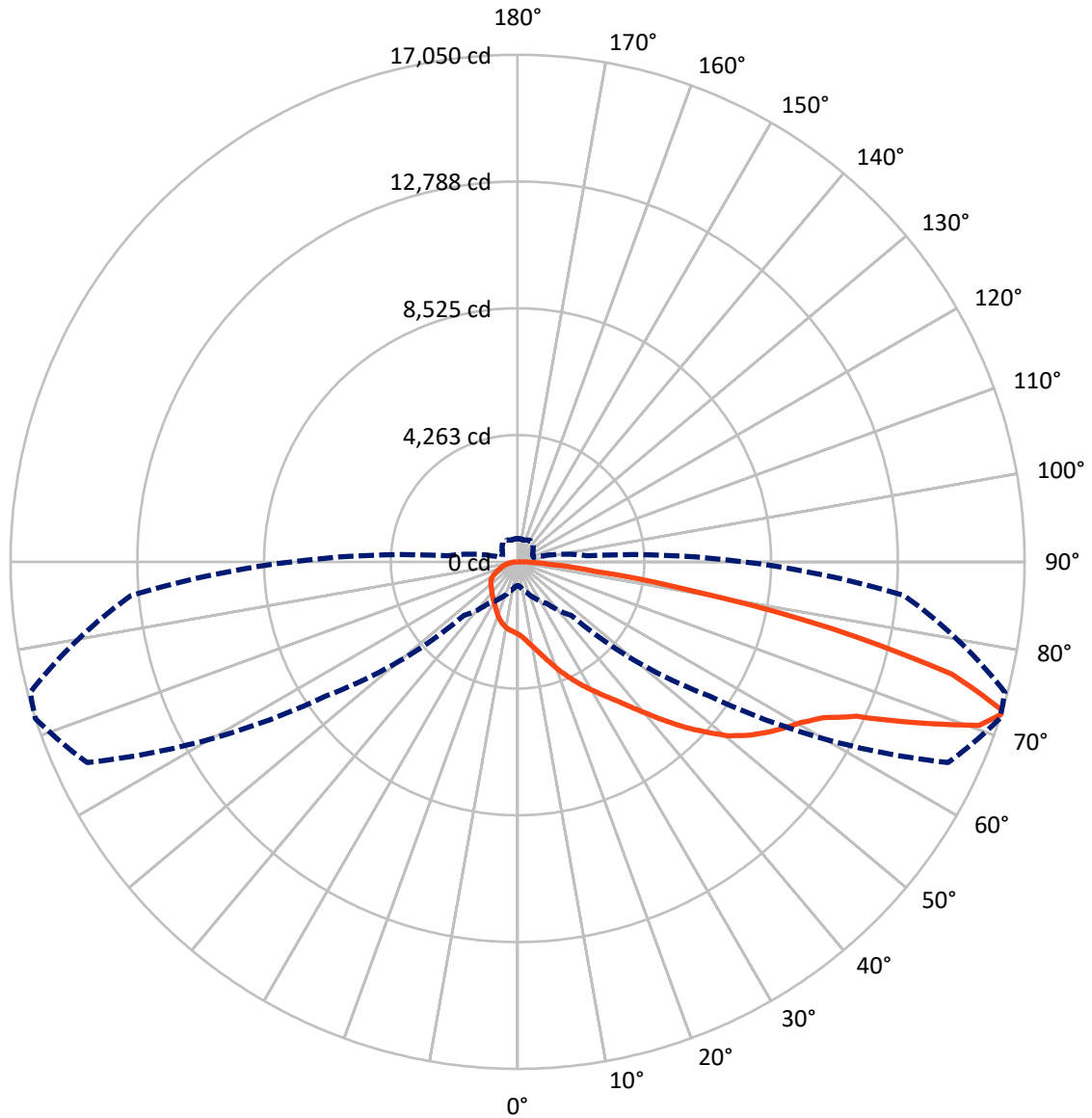
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3661.8	0.0	3661.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16077.7	0.0	16077.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	19739.5	0.0	19739.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.3	1.2
10°-20°	786.4	4.0
20°-30°	1377.9	7.0
30°-40°	2043.1	10.4
40°-50°	2988.1	15.1
50°-60°	4111.6	20.8
60°-70°	4577.5	23.2
70°-80°	3101.7	15.7
80°-90°	509.8	2.6
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°	19739.5	100.0
0°-180°	19739.5	100.0

Coefficient of Utilization

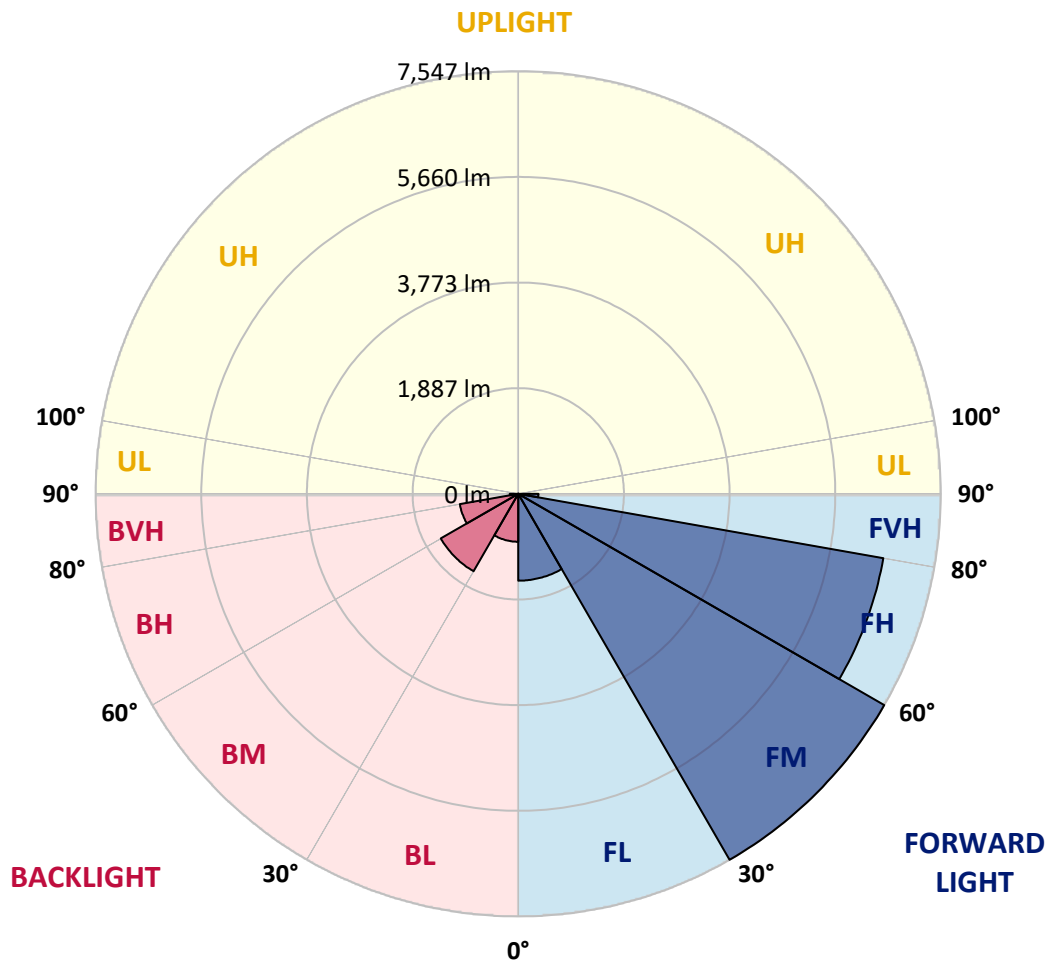


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1551.6	7.9			
FM (30°-60°)	7546.7	38.2			
FH (60°-80°)	6619.8	33.5			G3/7500
FVH (80°-90°)	359.6	1.8			G3/500
BL (0°-30°)	856.0	4.3	B2/1000		
BM (30°-60°)	1596.2	8.1	B2/2500		
BH (60°-80°)	1059.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	150.2	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5
2.5°	2682.7	2678.6	2664.3	2664.3	2637.1	2614.0	2570.5	2541.3	2506.6	2494.4	2453.6
5°	2942.3	2943.7	2926.0	2913.8	2873.6	2824.7	2750.7	2683.3	2616.1	2588.9	2505.3
7.5°	3160.5	3157.8	3153.0	3142.9	3105.4	3055.1	2955.2	2855.3	2756.1	2715.3	2571.2
10°	3300.5	3306.6	3310.7	3315.5	3299.8	3263.8	3169.3	3047.7	2917.8	2862.1	2650.1
12.5°	3371.2	3382.1	3401.1	3433.7	3459.6	3455.5	3386.8	3257.7	3103.4	3033.4	2748.6
15°	3412.6	3426.9	3456.8	3515.3	3588.0	3629.5	3611.1	3494.2	3322.3	3235.9	2868.9
17.5°	3438.4	3450.0	3496.3	3574.4	3682.5	3792.6	3840.9	3743.0	3569.7	3471.1	3006.8
20°	3456.1	3465.0	3522.7	3614.5	3754.5	3929.8	4064.4	4039.9	3842.2	3714.5	3151.0
22.5°	3495.5	3503.0	3558.0	3650.5	3805.5	4031.8	4279.9	4316.6	4129.7	3984.9	3305.2
25°	3605.6	3605.6	3651.9	3716.4	3861.9	4120.1	4462.0	4624.5	4423.3	4254.8	3447.9
27.5°	3815.7	3813.7	3830.6	3853.1	3963.2	4209.8	4624.5	4896.4	4727.8	4543.6	3586.6
30°	4064.4	4078.0	4080.1	4069.2	4120.9	4322.0	4774.7	5183.2	5034.4	4835.8	3728.7
32.5°	4384.6	4393.4	4383.2	4347.2	4339.7	4481.1	4922.2	5483.6	5366.0	5141.0	3858.5
35°	4791.0	4774.0	4742.0	4668.6	4598.7	4693.8	5090.7	5784.0	5738.5	5510.1	4037.2
37.5°	5226.7	5227.4	5188.0	5021.4	4924.9	4965.7	5323.2	6124.6	6189.1	5949.1	4266.3
40°	5576.1	5594.4	5618.8	5400.0	5275.0	5331.3	5618.8	6519.4	6722.0	6469.8	4564.7
42.5°	5820.0	5841.1	5910.5	5773.2	5643.3	5748.0	5966.8	6940.9	7320.1	7070.6	4914.0
45°	6078.3	6089.9	6138.8	6079.7	5996.7	6232.6	6359.0	7377.2	7952.9	7710.9	5304.9
47.5°	6350.2	6362.4	6412.7	6373.3	6329.8	6685.3	6768.2	7788.4	8559.2	8414.4	5722.1
50°	6685.9	6694.1	6741.7	6670.3	6683.9	7026.5	7133.9	8165.6	9194.7	9046.4	6140.9
52.5°	7144.0	7146.1	7212.0	7147.5	7083.6	7276.6	7448.6	8521.1	9692.8	9622.8	6559.5
55°	7502.9	7524.7	7740.8	7727.2	7690.5	7503.6	7711.5	8859.6	10137.3	10170.6	7004.0
57.5°	7273.9	7358.9	7796.5	8105.1	8405.5	8068.4	8067.0	9240.9	10550.6	10708.2	7492.7
60°	6370.6	6486.1	7131.1	7815.6	8755.5	9051.2	8805.2	9706.4	10967.9	11241.1	8105.1
62.5°	4549.8	4740.1	5614.1	6707.0	8275.7	9702.3	10307.2	10445.3	11535.4	11858.2	8901.0
65°	2300.0	2444.1	3176.8	4493.3	6611.8	9276.8	11939.8	12062.8	12521.6	12808.4	10126.5
67.5°	1397.4	1451.8	1809.3	2499.2	4053.5	7226.3	12472.7	14759.1	14430.1	14582.4	11873.9
70°	1029.7	1069.8	1292.7	1659.7	2331.3	4240.5	10837.3	16683.3	16467.2	16450.1	13165.3
72°	802.0	831.2	1028.3	1341.0	1704.6	2544.1	7855.0	15973.0	17050.3	16964.6	13047.0
72.5°	760.5	786.4	965.8	1262.2	1610.8	2306.1	7062.5	15493.9	17008.1	16969.4	12894.1
75°	598.8	617.2	715.1	976.0	1260.8	1308.4	3870.0	12007.1	15088.1	15715.4	11597.3
77.5°	495.5	498.2	549.9	710.3	982.8	925.0	1901.0	8330.7	10804.1	11494.0	8215.2
80°	403.7	407.1	431.6	498.2	743.6	684.4	902.6	4790.3	6049.1	6056.5	3906.7
82.5°	321.5	322.1	349.3	364.3	534.2	489.3	517.2	2249.0	2643.3	2542.7	1404.2
85°	226.4	221.6	341.2	299.0	349.3	314.0	285.4	890.4	1092.9	1045.4	439.8
87.5°	75.5	78.2	151.6	193.7	203.9	178.1	127.1	341.2	412.6	409.1	139.4
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°	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5	2428.5
2.5°	2440.7	2418.9	2387.0	2351.7	2323.8	2295.2	2274.2	2263.3	2251.1	2240.8	2253.1
5°	2466.6	2425.7	2357.7	2291.1	2242.2	2198.7	2167.4	2151.1	2136.2	2126.0	2127.4
7.5°	2508.7	2442.7	2328.6	2231.3	2163.4	2116.5	2084.5	2073.7	2064.1	2061.4	2064.9
10°	2553.6	2456.3	2289.8	2160.7	2083.2	2044.5	2030.2	2037.7	2044.5	2050.6	2057.4
12.5°	2604.5	2468.6	2233.4	2077.7	2011.9	1996.9	2011.1	2043.8	2067.6	2081.8	2090.7
15°	2671.1	2479.4	2168.2	1994.8	1950.7	1967.6	2015.9	2072.3	2113.8	2140.3	2144.3
17.5°	2732.3	2478.8	2084.5	1911.3	1901.0	1950.7	2023.4	2102.9	2158.7	2196.0	2203.5
20°	2795.5	2460.4	1987.4	1829.7	1850.7	1932.3	2026.8	2122.6	2189.9	2233.4	2243.6
22.5°	2854.6	2428.5	1880.7	1755.6	1808.6	1907.8	2013.9	2111.1	2178.3	2213.7	2224.5
25°	2894.7	2372.7	1772.5	1693.1	1771.2	1877.9	1971.7	2049.9	2100.2	2117.9	2120.6
27.5°	2915.1	2300.0	1670.6	1638.7	1732.5	1829.0	1893.6	1932.3	1946.6	1945.3	1942.5
30°	2917.8	2204.1	1583.0	1594.5	1687.6	1757.0	1787.5	1780.1	1761.7	1730.4	1733.1
32.5°	2909.0	2096.1	1509.6	1552.3	1630.6	1669.2	1670.6	1634.6	1585.7	1536.0	1522.4
35°	2911.7	1990.1	1445.0	1504.8	1561.2	1578.2	1562.6	1509.6	1443.0	1379.1	1365.5
37.5°	2941.6	1897.7	1389.2	1449.8	1484.4	1488.5	1466.1	1410.4	1361.4	1298.9	1293.5
40°	3013.0	1831.7	1336.2	1387.9	1407.6	1409.6	1377.7	1338.3	1342.4	1309.0	1308.4
42.5°	3141.5	1803.2	1289.4	1323.4	1335.6	1339.7	1315.2	1290.0	1325.4	1303.6	1296.2
45°	3307.3	1810.0	1250.0	1260.1	1282.6	1301.6	1286.7	1256.0	1269.6	1175.1	1143.8
47.5°	3499.0	1853.5	1218.7	1205.7	1244.5	1280.5	1257.4	1211.2	1162.9	1069.1	1051.4
50°	3723.2	1920.8	1190.1	1152.0	1203.0	1252.0	1228.8	1162.9	1090.2	1044.6	1038.6
52.5°	3957.0	2003.0	1161.5	1092.9	1150.6	1230.2	1218.7	1152.0	1062.3	1017.4	1009.3
55°	4222.1	2085.9	1125.5	1024.2	1094.3	1220.0	1213.9	1112.6	1041.3	1016.1	1010.0
57.5°	4551.7	2180.4	1078.0	952.9	1041.3	1183.3	1164.2	1088.8	1019.5	1000.5	998.4
60°	4981.4	2319.7	1009.3	876.8	976.7	1126.9	1122.8	1054.1	984.8	971.2	968.5
62.5°	5625.6	2550.1	914.9	800.7	904.6	1031.0	1068.5	1007.3	948.1	947.5	948.8
65°	6624.8	2896.7	812.2	734.1	832.0	950.2	1005.2	959.0	910.8	924.4	926.4
67.5°	7782.9	3184.3	711.6	668.8	757.8	873.4	948.1	910.8	861.1	896.5	897.2
70°	8168.3	2927.4	623.3	604.2	681.1	799.3	886.3	857.8	807.5	842.8	839.4
72°	7601.4	2363.2	566.2	555.3	623.3	738.2	831.2	808.1	758.6	782.3	773.5
72.5°	7422.8	2253.1	551.8	543.1	607.6	722.5	817.0	795.9	746.3	766.7	758.6
75°	6621.3	1956.8	474.4	476.5	530.1	646.4	736.8	730.0	679.0	681.1	678.4
77.5°	4802.6	1434.8	399.6	413.2	451.3	568.2	655.9	651.8	596.1	585.9	583.8
80°	2228.6	732.0	325.6	331.7	371.1	475.1	559.4	553.9	509.1	496.1	488.7
82.5°	763.3	348.0	244.7	248.7	287.5	382.7	485.2	481.9	444.5	419.4	403.7
85°	272.6	173.4	171.3	167.2	205.2	301.1	422.7	404.4	349.3	297.7	296.3
87.5°	88.4	74.1	88.4	87.7	119.6	203.9	307.2	261.7	253.5	210.7	206.6
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)