

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: P528681

Luminaire Tested: **GALN-SA3D-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12690 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

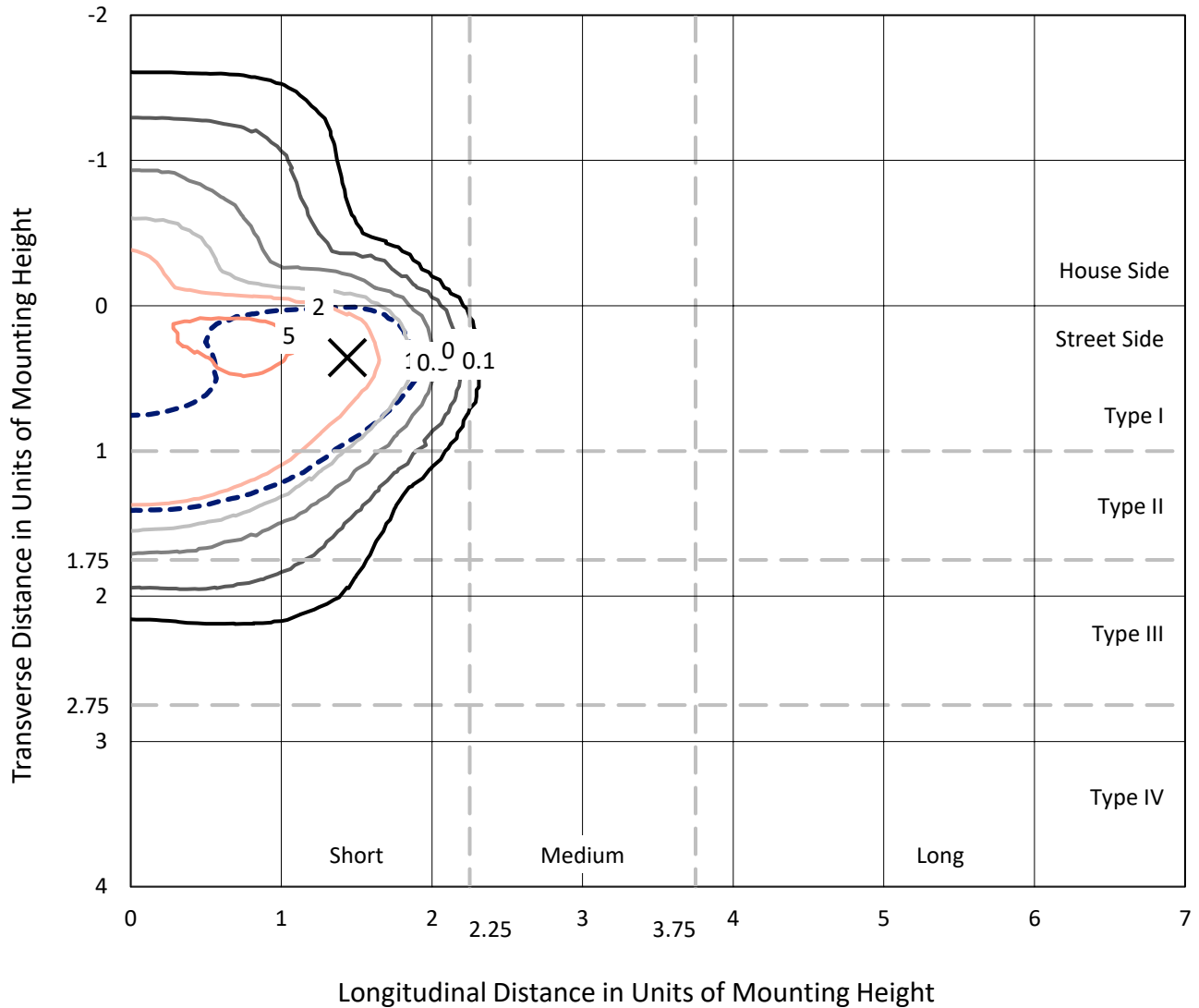
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

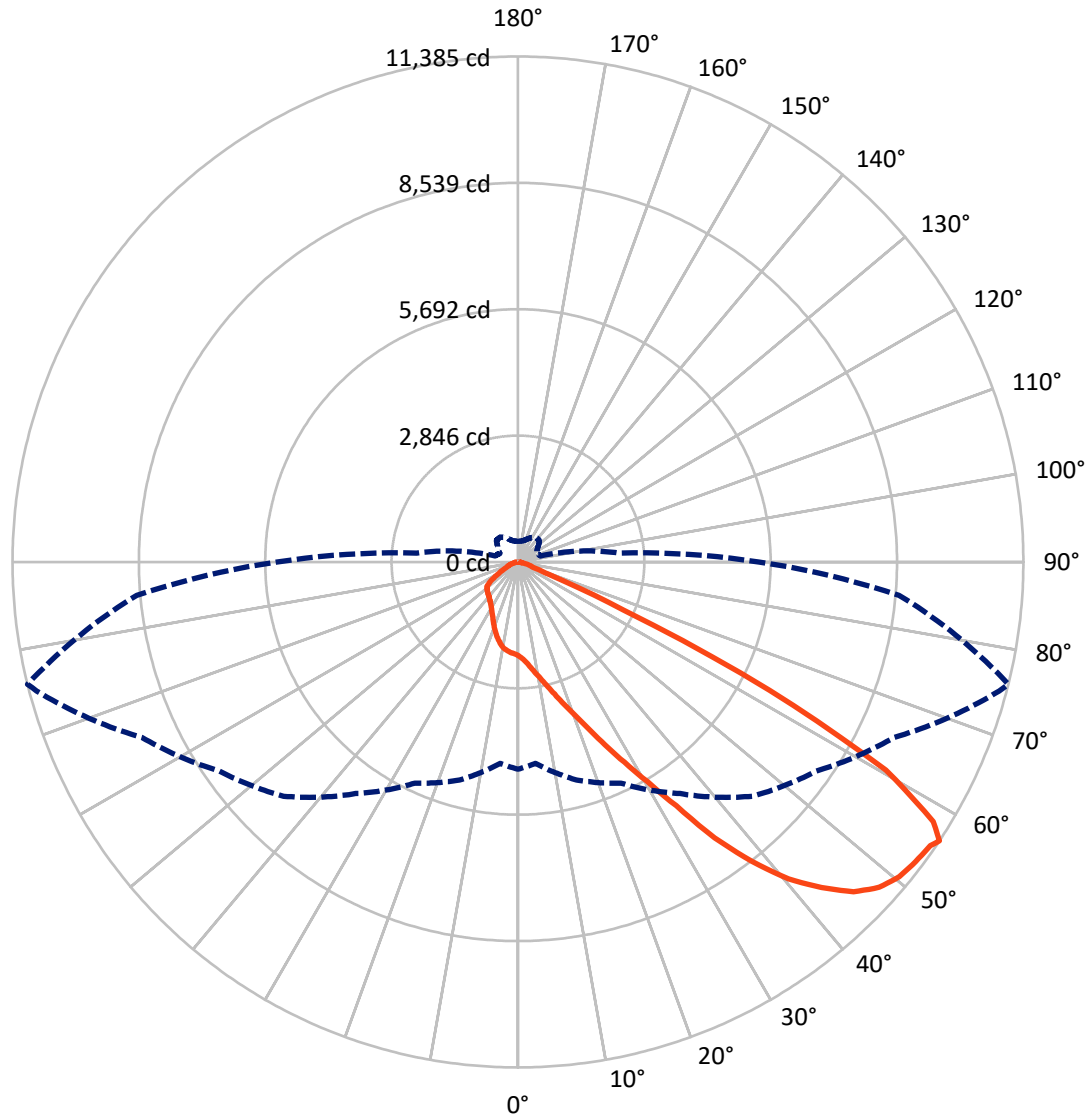
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1993.5	0.0	1993.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	10696.5	0.0	10696.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	12690.0	0.0	12690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	1.7
10°-20°	683.6	5.4
20°-30°	1239.5	9.8
30°-40°	2137.6	16.8
40°-50°	3472.6	27.4
50°-60°	3660.3	28.8
60°-70°	1118.4	8.8
70°-80°	143.4	1.1
80°-90°	21.8	0.2
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°	12690.0	100.0
0°-180°	12690.0	100.0

Coefficient of Utilization

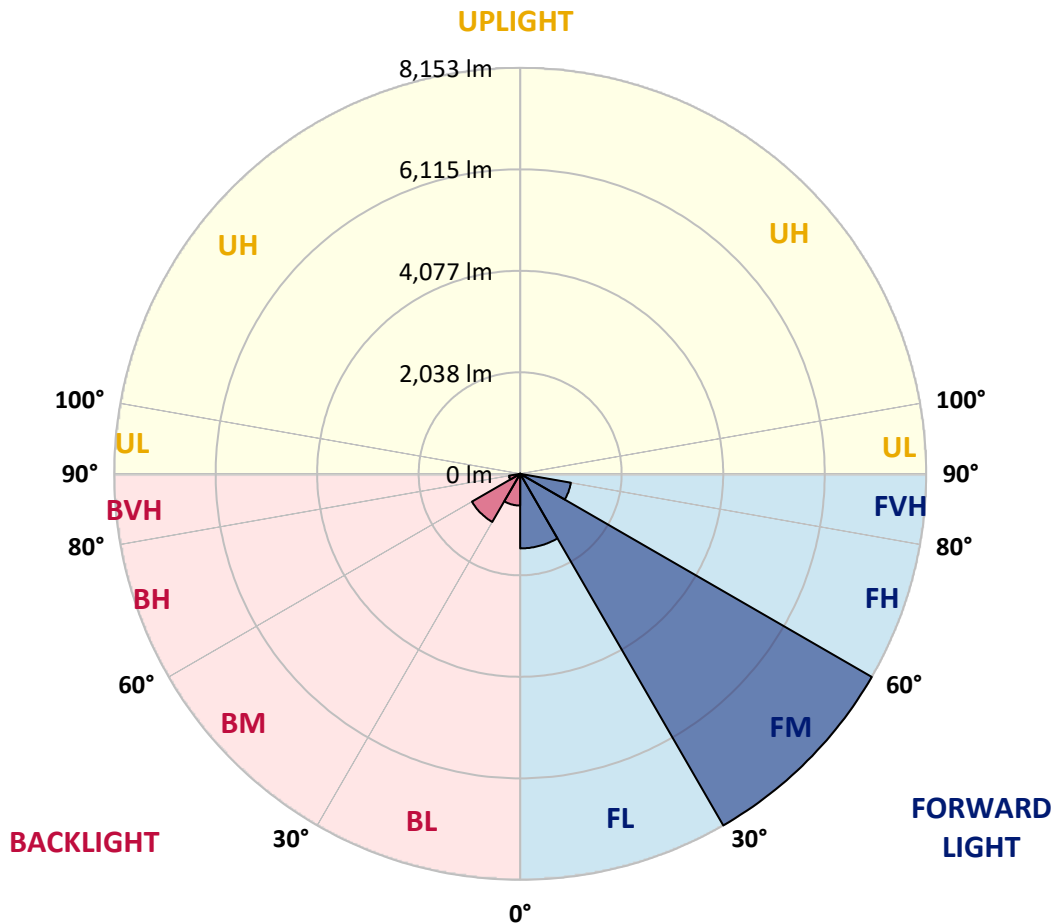


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1498.2	11.8			
FM (30°-60°)	8153.3	64.2			
FH (60°-80°)	1034.3	8.2			G1/1800
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	637.7	5.0	B2/1000		
BM (30°-60°)	1117.3	8.8	B2/2500		
BH (60°-80°)	227.4	1.8	B1/500		G1/500
BVH (80°-90°)	11.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3
2.5°	2432.7	2376.6	2378.9	2374.3	2367.2	2341.5	2264.3	2252.6	2201.2	2187.1	2140.3
5°	2725.1	2676.0	2704.1	2662.0	2622.2	2598.8	2472.5	2414.0	2332.2	2301.7	2236.2
7.5°	2907.6	2884.2	2874.8	2877.2	2839.8	2781.3	2725.1	2596.5	2486.5	2463.1	2325.1
10°	2996.5	2982.4	2996.5	2989.5	3005.8	3012.8	2914.6	2837.4	2676.0	2636.2	2421.0
12.5°	3017.5	3045.6	3057.3	3087.7	3127.5	3195.3	3188.3	3083.0	2867.8	2842.1	2568.4
15°	3069.0	3092.4	3080.7	3129.8	3204.7	3319.3	3380.1	3363.7	3132.1	3085.4	2739.2
17.5°	3115.8	3073.7	3113.4	3211.7	3286.5	3462.0	3609.3	3677.2	3419.9	3366.1	2895.9
20°	3178.9	3167.2	3160.2	3209.3	3342.7	3576.6	3869.0	3993.0	3742.7	3686.5	3120.5
22.5°	3370.7	3373.1	3368.4	3295.9	3391.8	3656.1	4095.9	4402.3	4128.6	4081.8	3375.4
25°	3623.4	3593.0	3569.6	3511.1	3499.4	3728.6	4325.1	4902.9	4591.8	4559.0	3651.4
27.5°	3890.0	3890.0	3819.9	3766.1	3691.2	3908.8	4535.6	5389.4	5150.9	5106.4	3892.4
30°	4180.1	4196.5	4187.1	4072.5	4025.7	4105.2	4750.9	6011.7	5791.8	5735.6	4290.0
32.5°	4608.2	4573.1	4612.8	4516.9	4378.9	4449.1	5090.0	6568.4	6624.5	6545.0	4811.7
35°	5174.2	5153.2	5127.5	4970.7	4807.0	4863.1	5569.6	7253.8	7670.1	7630.4	5338.0
37.5°	5681.8	5670.1	5649.1	5541.5	5352.0	5419.9	6114.6	7967.2	8690.0	8559.0	6081.8
40°	6215.2	6278.3	6210.5	6114.6	5941.5	6091.2	6755.5	8390.6	9548.5	9389.4	6650.3
42.5°	6938.0	6888.9	6919.3	6743.8	6650.3	6814.0	7398.8	8814.0	10215.2	10025.7	7253.8
45°	7707.6	7709.9	7628.0	7571.9	7328.6	7506.4	7794.1	9047.9	10746.1	10598.8	7709.9
47.5°	8201.1	8198.8	8287.7	8376.6	8126.3	7950.8	8063.1	9270.1	11019.8	10952.0	7876.0
50°	8123.9	8147.3	8261.9	8594.1	8725.1	8488.8	8315.7	9204.6	11143.8	11136.8	8018.7
52.5°	7066.6	7143.8	7335.6	7815.2	8474.8	8767.2	8580.1	9326.3	11204.6	11216.3	8231.5
55°	5380.1	5422.2	5787.1	6369.6	7099.4	8100.5	8474.8	9422.2	11251.4	11272.5	8488.8
56°	4666.6	4554.4	5080.7	5494.7	6367.2	7461.9	8208.1	9347.3	11223.3	11384.7	8617.5
57.5°	3522.8	3447.9	3873.7	4390.6	5230.4	6385.9	7380.1	8994.1	11033.9	11031.5	8432.7
60°	2142.7	2067.8	2395.3	2699.4	3169.6	3932.1	4987.1	7162.5	9328.6	9525.1	6828.0
62.5°	1274.8	1321.6	1644.4	1829.2	1981.3	2060.8	2580.1	4257.3	6224.5	6364.9	4236.2
65°	849.1	865.5	1108.8	1412.9	1480.7	1178.9	1050.3	1724.0	2699.4	2612.9	1747.4
67.5°	524.0	561.4	743.9	1062.0	1176.6	860.8	498.2	643.3	743.9	743.9	505.3
70°	318.1	336.8	495.9	722.8	807.0	554.4	362.6	362.6	357.9	350.9	301.8
72.5°	152.0	163.7	252.6	371.9	378.9	292.4	280.7	306.4	299.4	297.1	250.3
75°	65.5	70.2	88.9	117.0	133.3	124.0	170.8	219.9	226.9	219.9	180.1
77.5°	21.1	23.4	32.7	42.1	44.4	53.8	72.5	91.2	105.3	98.2	88.9
80°	2.3	4.7	9.4	21.1	32.7	42.1	53.8	60.8	67.8	67.8	63.2
82.5°	2.3	2.3	9.4	18.7	30.4	39.8	51.5	58.5	67.8	70.2	65.5
85°	0.0	2.3	7.0	16.4	25.7	25.7	23.4	23.4	16.4	16.4	16.4
87.5°	0.0	0.0	2.3	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7
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°	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3
2.5°	2131.0	2126.3	2063.1	2023.4	2002.3	1960.2	1934.5	1915.8	1901.7	1885.4	1887.7
5°	2159.1	2142.7	2037.4	1964.9	1878.4	1831.6	1791.8	1759.1	1738.0	1733.3	1724.0
7.5°	2238.6	2152.0	1993.0	1862.0	1752.0	1705.3	1670.2	1649.1	1658.5	1637.4	1653.8
10°	2299.4	2170.7	1939.2	1749.7	1639.8	1604.7	1586.0	1602.3	1625.7	1616.4	1604.7
12.5°	2374.3	2189.5	1852.6	1642.1	1539.2	1513.4	1546.2	1576.6	1623.4	1642.1	1618.7
15°	2458.5	2210.5	1742.7	1518.1	1452.6	1473.7	1529.8	1583.6	1630.4	1653.8	1667.8
17.5°	2561.4	2203.5	1635.1	1419.9	1370.8	1431.6	1499.4	1548.5	1618.7	1653.8	1644.4
20°	2657.3	2180.1	1515.8	1321.6	1324.0	1380.1	1436.2	1515.8	1553.2	1600.0	1583.6
22.5°	2748.5	2138.0	1391.8	1253.8	1253.8	1340.3	1368.4	1419.9	1452.6	1476.0	1473.7
25°	2877.2	2058.5	1288.9	1188.3	1216.4	1272.5	1295.9	1312.3	1298.2	1317.0	1319.3
27.5°	2968.4	1976.6	1204.7	1129.8	1181.3	1223.4	1216.4	1207.0	1174.3	1148.5	1164.9
30°	3066.7	1880.7	1132.2	1090.1	1118.1	1155.5	1127.5	1099.4	1047.9	1005.8	1008.2
32.5°	3207.0	1836.2	1069.0	1043.3	1080.7	1085.4	1055.0	1012.9	961.4	921.6	919.3
35°	3469.0	1808.2	1015.2	1012.9	1019.9	1022.2	991.8	940.3	919.3	886.5	898.2
37.5°	3731.0	1794.1	977.8	968.4	966.1	968.4	933.3	884.2	924.0	921.6	926.3
40°	4065.5	1857.3	924.0	912.3	914.6	914.6	870.2	856.1	926.3	933.3	935.7
42.5°	4404.7	1936.8	888.9	851.5	860.8	860.8	837.4	821.0	870.2	823.4	816.4
45°	4699.4	2053.8	851.5	790.6	814.0	825.7	818.7	790.6	760.2	680.7	680.7
47.5°	4795.3	2156.7	807.0	732.2	750.9	802.3	781.3	722.8	669.0	603.5	598.8
50°	4963.7	2269.0	771.9	664.3	704.1	767.2	746.2	687.7	626.9	580.1	582.5
52.5°	5136.8	2397.6	706.4	584.8	633.9	739.2	739.2	673.7	580.1	547.4	542.7
55°	5396.5	2393.0	589.5	479.5	566.1	697.1	708.8	603.5	519.3	493.6	493.6
56°	5433.9	2285.4	531.0	449.1	535.7	685.4	687.7	584.8	495.9	467.8	467.8
57.5°	5153.2	2063.1	465.5	411.7	498.2	664.3	666.7	568.4	477.2	437.4	432.7
60°	3964.9	1396.5	388.3	367.2	451.5	598.8	610.5	517.0	418.7	388.3	386.0
62.5°	2238.6	774.3	341.5	332.2	388.3	509.9	545.0	451.5	355.6	339.2	343.9
65°	1022.2	425.7	287.7	269.0	313.4	393.0	439.8	371.9	292.4	273.7	273.7
67.5°	374.3	290.1	245.6	212.9	219.9	255.0	285.4	240.9	194.2	166.1	173.1
70°	266.7	243.3	215.2	184.8	170.8	166.1	163.7	135.7	95.9	74.9	79.5
72.5°	215.2	201.2	180.1	156.7	133.3	112.3	95.9	70.2	44.4	30.4	28.1
75°	154.4	147.4	131.0	112.3	93.6	79.5	65.5	44.4	23.4	11.7	11.7
77.5°	79.5	79.5	77.2	70.2	58.5	46.8	37.4	25.7	14.0	4.7	4.7
80°	60.8	65.5	67.8	60.8	53.8	42.1	30.4	18.7	9.4	2.3	2.3
82.5°	58.5	67.8	72.5	63.2	53.8	39.8	30.4	18.7	9.4	2.3	2.3
85°	14.0	14.0	21.1	23.4	30.4	32.7	25.7	16.4	7.0	2.3	2.3
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	0.0
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)