

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: P526786

Luminaire Tested: **GALN-SA1D-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-730-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6264 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

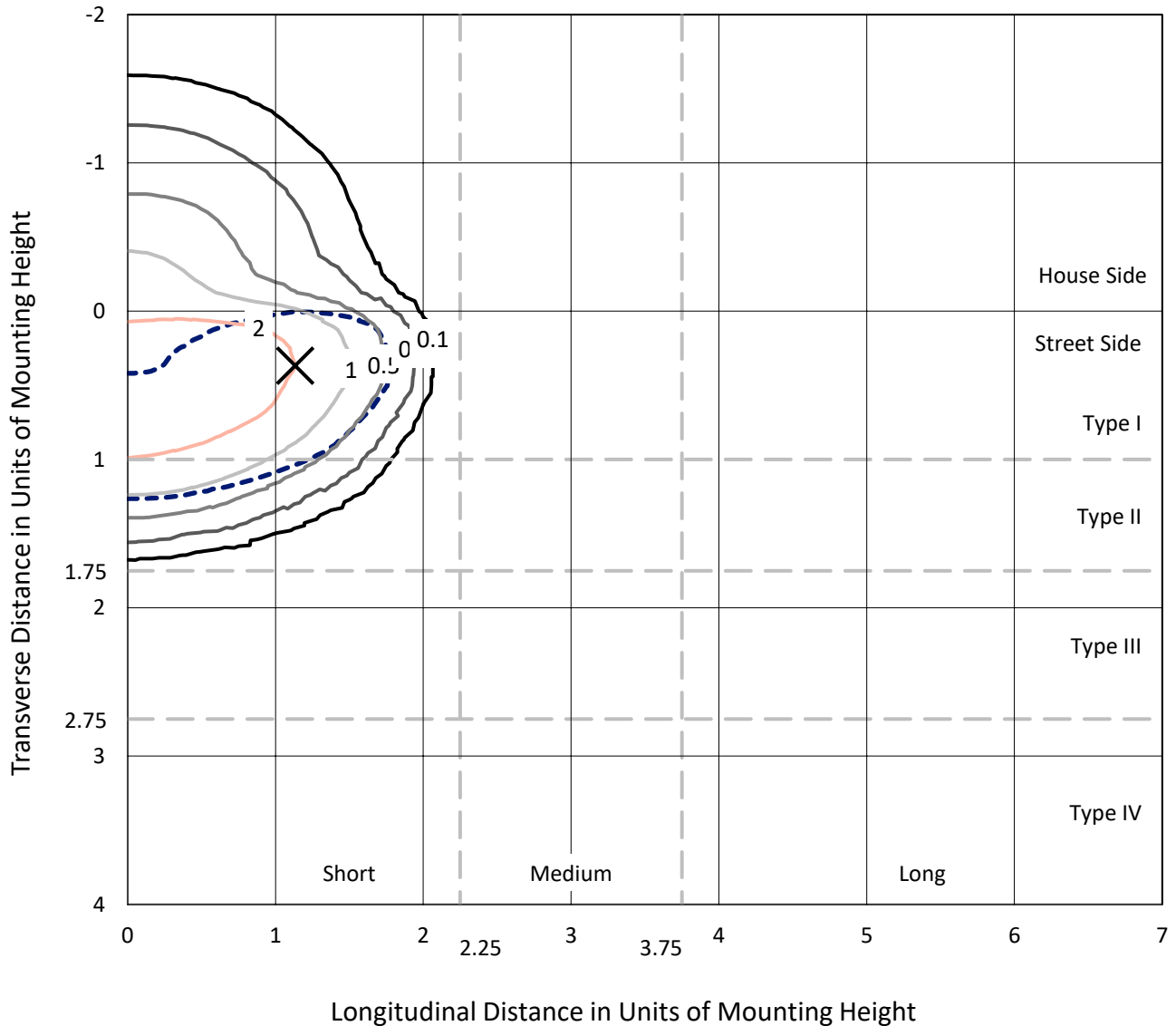
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

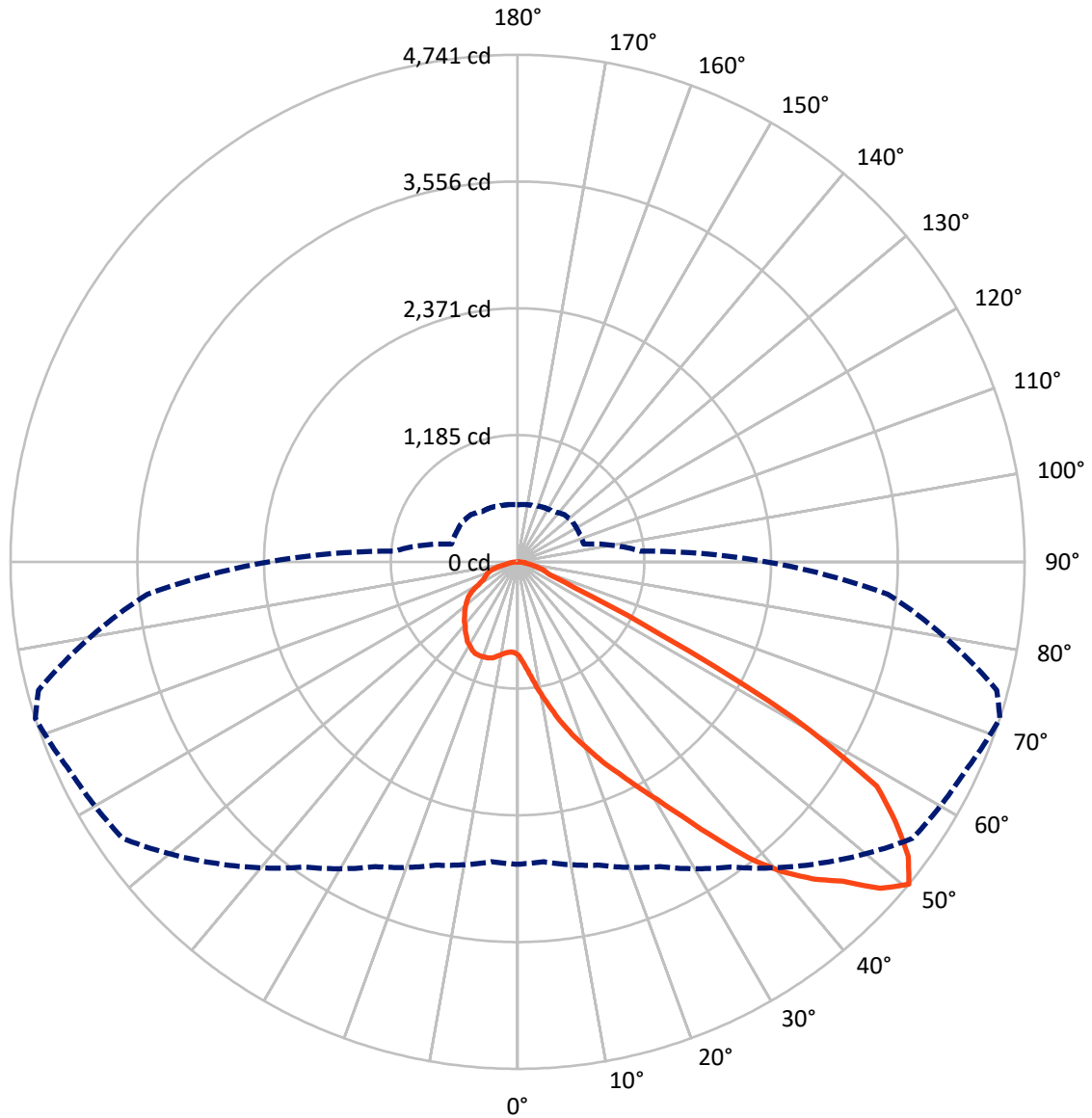
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1435.1	0.0	1435.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4828.9	0.0	4828.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	6264.0	0.0	6264.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.6	1.6
10°-20°	383.4	6.1
20°-30°	743.5	11.9
30°-40°	1231.7	19.7
40°-50°	1723.4	27.5
50°-60°	1453.9	23.2
60°-70°	443.1	7.1
70°-80°	155.5	2.5
80°-90°	27.0	0.4
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°	6264.0	100.0
0°-180°	6264.0	100.0

**Coefficient of Utilization**

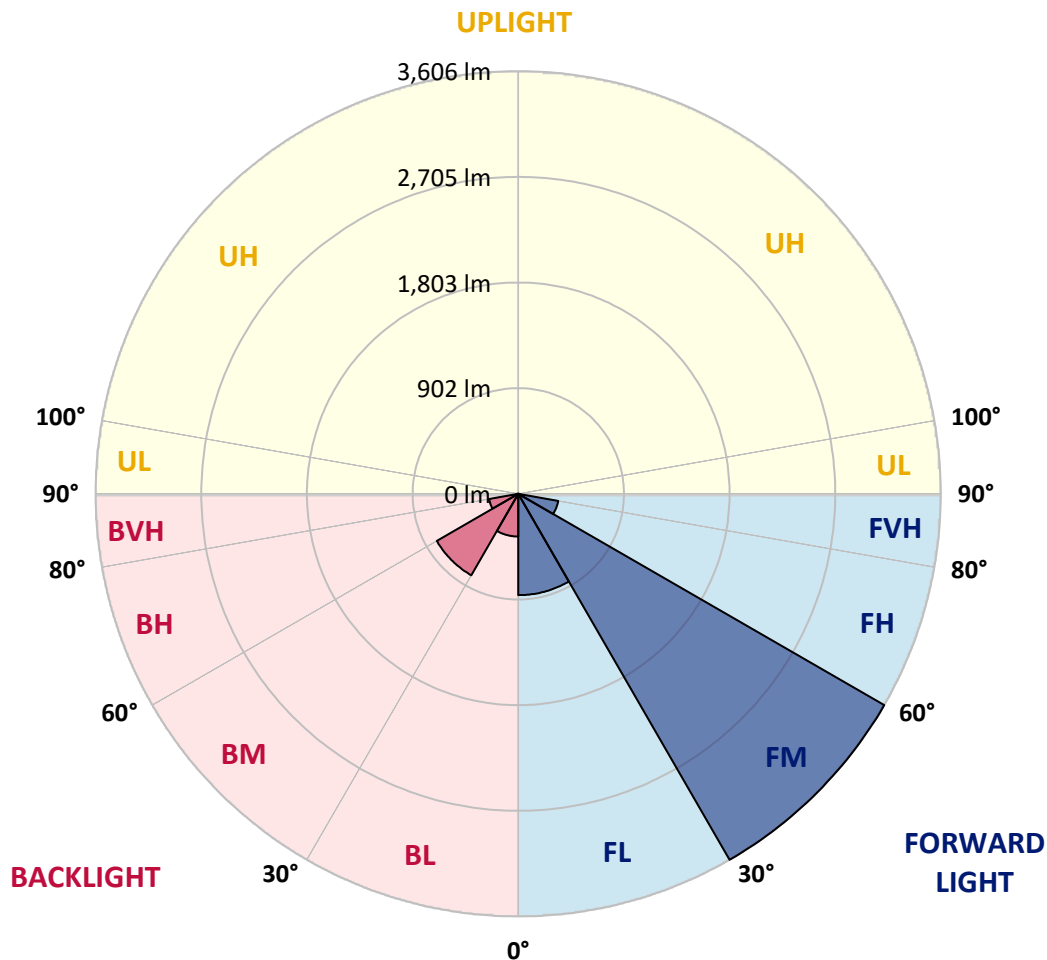


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.7	13.8			
FM (30°-60°)	3606.4	57.6			
FH (60°-80°)	345.8	5.5			G0/660
FVH (80°-90°)	12.1	0.2			G1/100
BL (0°-30°)	364.8	5.8	B1/500		
BM (30°-60°)	802.5	12.8	B1/1000		
BH (60°-80°)	252.8	4.0	B1/500		G1/500
BVH (80°-90°)	14.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0
2.5°	1121.6	1114.6	1093.7	1086.7	1061.9	1016.9	1001.4	955.7	936.3	918.5	897.6
5°	1418.5	1385.9	1383.6	1344.0	1286.7	1253.4	1154.1	1087.5	1026.2	995.2	937.9
7.5°	1607.6	1608.4	1608.4	1575.8	1530.1	1445.6	1356.4	1236.3	1144.1	1098.3	1000.7
10°	1787.4	1771.9	1763.4	1760.3	1729.3	1647.1	1551.8	1403.0	1276.6	1223.1	1048.0
12.5°	1914.5	1901.4	1920.7	1910.7	1888.2	1834.7	1744.8	1575.0	1416.9	1344.8	1123.9
15°	1975.0	1984.3	1999.8	2027.7	2017.6	1997.5	1898.3	1751.8	1568.1	1486.7	1191.3
17.5°	2068.0	2042.4	2061.0	2095.9	2123.8	2114.5	2057.9	1879.6	1717.7	1617.7	1282.0
20°	2133.1	2118.4	2127.7	2168.0	2188.9	2241.6	2212.2	2047.1	1861.0	1755.6	1389.0
22.5°	2319.1	2297.4	2267.2	2273.4	2281.2	2318.4	2325.3	2230.8	2027.7	1916.1	1490.5
25°	2548.6	2528.4	2492.8	2456.3	2433.9	2426.9	2450.9	2374.9	2187.4	2071.9	1599.8
27.5°	2801.3	2767.2	2744.7	2669.5	2609.0	2599.7	2588.1	2547.0	2376.5	2251.7	1723.1
30°	3047.0	3019.8	2989.6	2869.5	2806.7	2796.6	2739.2	2750.9	2581.9	2443.2	1862.6
32.5°	3233.0	3235.3	3166.3	3075.6	3016.7	2963.3	2942.3	2975.7	2845.4	2733.8	2018.4
35°	3383.4	3390.3	3324.5	3242.3	3178.7	3215.9	3206.6	3222.1	3160.1	3023.7	2199.8
37.5°	3529.9	3495.0	3424.4	3384.9	3351.6	3412.8	3491.9	3505.1	3516.7	3356.2	2410.6
40°	3553.9	3557.0	3515.9	3543.8	3502.0	3594.2	3777.9	3760.8	3808.1	3667.8	2639.3
42.5°	3519.8	3526.8	3543.0	3582.6	3683.3	3794.2	4067.0	3997.3	4054.6	3929.8	2861.7
45°	3464.0	3435.3	3455.5	3605.8	3780.2	4026.7	4331.3	4277.1	4258.5	4153.8	3126.8
47.5°	3197.3	3226.8	3289.6	3474.8	3736.8	4067.0	4518.9	4506.5	4562.3	4488.7	3367.9
50°	2827.6	2816.0	2936.9	3145.4	3483.4	3988.0	4508.8	4621.2	4741.4	4639.1	3475.6
52.5°	2117.6	2179.6	2283.5	2542.4	3024.5	3557.0	4288.7	4476.3	4573.9	4552.2	3388.8
55°	1338.6	1357.2	1420.0	1727.7	2161.8	2854.7	3676.4	4111.2	4285.6	4367.0	3309.0
57.5°	650.3	615.4	692.2	939.4	1248.7	1920.0	2835.4	3581.0	3960.1	4107.3	3135.3
60°	339.5	352.7	382.9	471.3	645.7	996.8	1767.3	2386.6	2965.6	3191.9	2376.5
62.5°	281.4	286.0	306.2	350.4	429.4	573.6	902.2	1163.4	1512.2	1716.1	1351.8
65°	238.7	241.1	262.8	292.2	342.6	403.8	464.3	486.0	588.3	603.8	480.6
67.5°	199.2	201.5	224.8	252.7	285.2	301.5	317.0	315.5	327.1	322.4	321.7
70°	153.5	155.8	179.8	209.3	225.6	216.3	264.3	275.2	279.8	283.7	289.9
72.5°	110.8	115.5	134.1	155.0	146.5	168.2	217.8	234.1	240.3	242.6	250.4
75°	80.6	82.2	86.8	80.6	93.0	117.0	153.5	173.6	181.4	183.7	195.3
77.5°	35.7	36.4	37.2	46.5	59.7	72.9	91.5	107.7	118.6	121.7	124.8
80°	18.6	19.4	24.0	31.8	42.6	53.5	66.7	76.0	82.9	83.7	86.8
82.5°	11.6	12.4	17.1	22.5	30.2	39.5	48.8	56.6	62.0	62.8	63.6
85°	5.4	7.0	10.1	14.0	20.2	25.6	26.4	22.5	24.0	24.8	23.3
87.5°	1.6	2.3	3.1	2.3	3.1	3.1	3.9	4.7	4.7	4.7	5.4
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°	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0
2.5°	886.0	879.0	851.8	841.8	815.4	820.1	806.1	805.3	802.2	801.5	800.7
5°	907.7	886.0	853.4	828.6	813.9	812.3	802.2	802.2	805.3	807.7	802.2
7.5°	943.3	918.5	863.5	840.2	827.0	824.7	817.7	812.3	819.3	817.0	810.8
10°	984.4	941.0	882.9	862.7	841.0	835.6	835.6	837.9	826.3	830.1	823.9
12.5°	1030.1	972.0	907.7	884.4	858.8	855.7	854.2	837.1	843.3	840.2	824.7
15°	1088.3	1007.6	939.4	899.9	878.2	864.3	844.1	841.0	837.1	829.4	822.4
17.5°	1151.0	1046.4	954.2	904.6	872.0	861.9	846.4	830.1	818.5	820.1	814.6
20°	1204.5	1082.1	959.6	909.2	867.4	848.0	823.9	813.9	801.5	800.7	799.9
22.5°	1268.1	1130.1	967.3	896.8	853.4	833.2	817.0	799.1	790.6	779.8	785.2
25°	1344.0	1148.7	968.9	889.8	843.3	807.7	799.1	779.8	776.7	761.2	764.3
27.5°	1399.1	1158.8	956.5	868.1	820.1	792.9	777.4	763.5	758.1	746.4	743.3
30°	1472.7	1174.3	930.1	841.0	796.8	766.6	757.3	754.2	738.7	726.3	724.7
32.5°	1556.4	1184.4	913.1	813.1	772.8	749.5	754.2	739.5	720.1	709.2	706.1
35°	1623.1	1188.2	870.5	781.3	756.5	741.8	736.4	733.3	705.4	695.3	687.5
37.5°	1724.6	1179.7	834.8	758.8	738.7	733.3	728.6	707.7	675.9	661.2	650.3
40°	1843.2	1177.4	789.1	727.1	721.6	727.8	713.9	681.3	637.1	620.9	613.1
42.5°	1957.2	1193.7	760.4	710.0	703.0	705.4	686.0	637.1	615.4	606.1	593.7
45°	2147.8	1227.8	713.1	683.6	680.5	679.0	655.7	604.6	592.2	580.6	578.2
47.5°	2319.9	1205.3	682.9	656.5	659.6	651.1	601.5	585.2	571.3	559.6	555.8
50°	2330.0	1151.8	640.2	635.6	636.4	621.6	574.4	563.5	545.7	537.9	532.5
52.5°	2277.3	1064.2	600.7	602.3	604.6	580.6	541.0	533.3	518.6	507.7	504.6
55°	2129.2	927.8	562.0	568.2	574.4	528.6	516.2	496.8	485.2	469.7	470.5
57.5°	1875.8	747.2	507.7	517.8	531.0	480.6	471.3	447.2	430.2	417.8	416.2
60°	1257.2	531.7	426.3	430.2	459.6	439.5	438.7	414.7	391.4	380.6	374.4
62.5°	741.8	406.2	368.2	364.3	363.5	375.2	394.5	386.0	355.8	334.8	341.0
65°	388.3	351.1	342.6	329.4	321.7	318.6	333.3	337.2	317.0	294.5	293.0
67.5°	326.3	326.3	319.3	314.7	303.8	290.7	281.4	269.0	265.9	259.7	251.9
70°	296.9	304.6	302.3	291.4	282.1	267.4	243.4	223.2	203.9	196.9	201.5
72.5°	258.9	266.6	266.6	261.2	248.8	226.3	203.1	179.8	163.5	151.1	149.6
75°	199.2	203.1	212.4	206.2	189.9	176.0	151.9	127.9	112.4	100.8	98.4
77.5°	127.1	133.3	133.3	132.5	120.9	107.7	92.2	75.2	63.6	55.0	52.7
80°	84.5	88.4	91.5	88.4	80.6	70.5	58.9	47.3	38.8	31.8	30.2
82.5°	62.0	66.7	69.0	65.9	58.1	50.4	41.9	33.3	24.8	19.4	17.8
85°	24.0	24.8	27.9	33.3	32.6	31.8	25.6	18.6	14.0	10.1	9.3
87.5°	6.2	5.4	6.2	6.2	5.4	4.7	4.7	4.7	4.7	2.3	3.1
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)