

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: P522633

Luminaire Tested: **GALN-SA1C-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6483 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

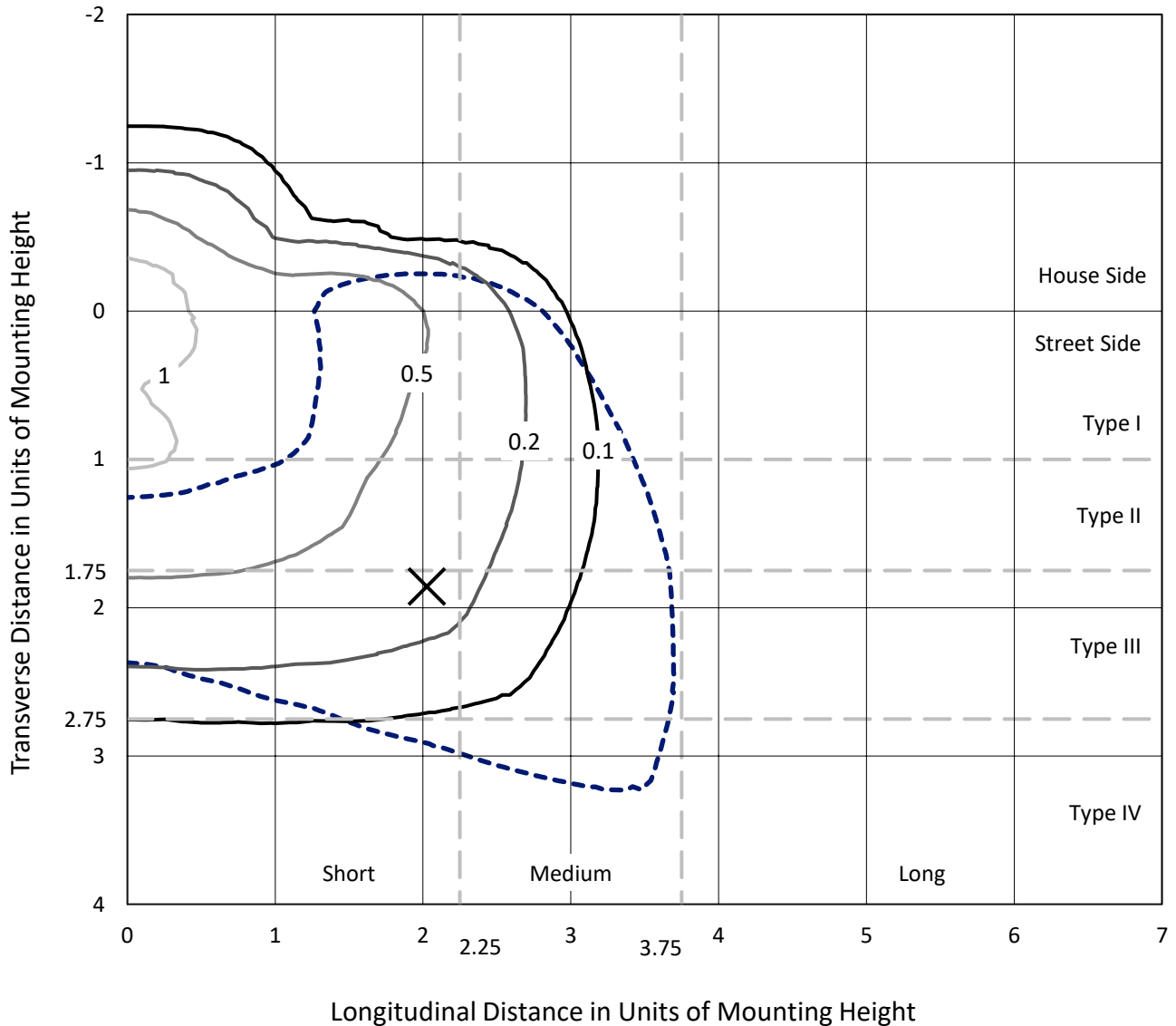
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

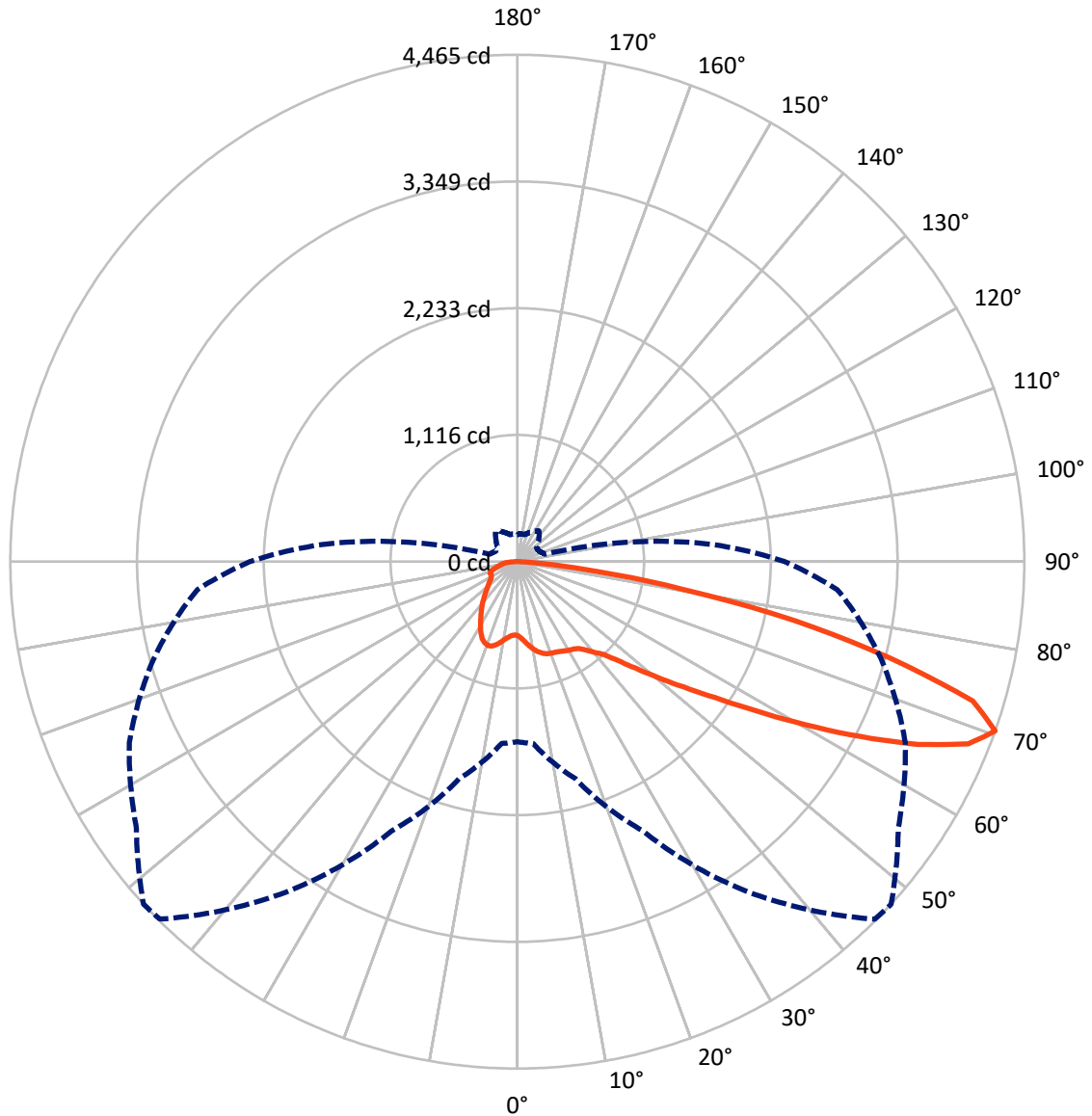
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1467.9	0.0	1467.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	5015.1	0.0	5015.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	6483.0	0.0	6483.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.1	1.0
10°-20°	224.3	3.5
20°-30°	373.0	5.8
30°-40°	528.6	8.2
40°-50°	780.4	12.0
50°-60°	1351.6	20.8
60°-70°	1909.2	29.4
70°-80°	1097.5	16.9
80°-90°	151.4	2.3
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°	6483.0	100.0
0°-180°	6483.0	100.0

**Coefficient of Utilization**



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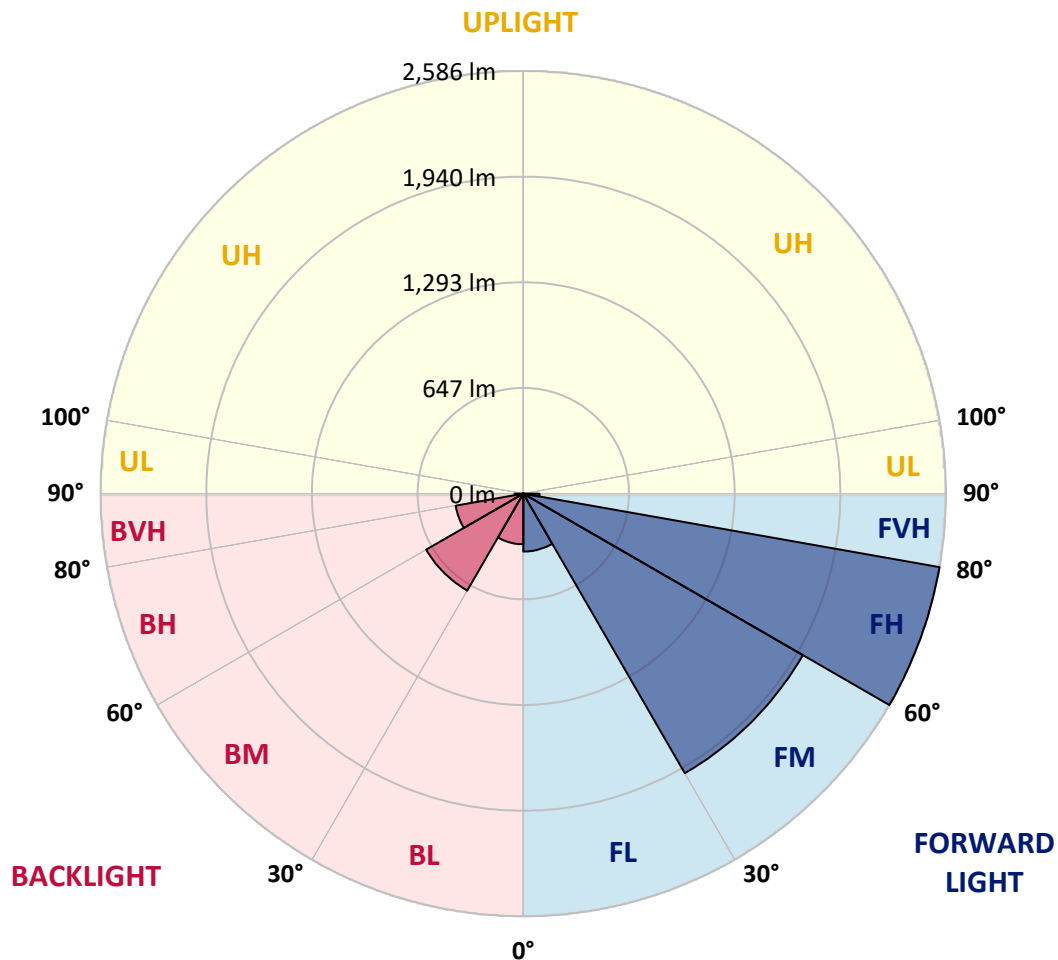
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.5	5.5			
FM (30°-60°)	1975.2	30.5			
FH (60°-80°)	2586.4	39.9			G2/5000
FVH (80°-90°)	98.9	1.5			G1/100
BL (0°-30°)	309.8	4.8	B1/500		
BM (30°-60°)	685.3	10.6	B1/1000		
BH (60°-80°)	420.2	6.5	B1/500		G1/500
BVH (80°-90°)	52.5	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8
2.5°	692.8	690.4	690.0	684.8	682.0	676.8	674.8	669.9	664.0	658.1	652.5
5°	747.3	747.3	744.8	737.5	726.1	714.3	709.1	699.7	683.1	669.5	658.1
7.5°	803.1	803.8	798.9	788.2	771.9	752.8	748.0	734.1	710.5	690.7	673.7
10°	851.3	851.3	844.7	830.2	809.7	788.9	784.0	768.4	742.1	717.4	695.2
12.5°	888.1	888.1	879.4	860.4	838.2	819.4	813.9	798.9	774.3	746.9	718.8
15°	912.0	910.3	900.6	879.1	857.6	841.3	837.5	825.0	802.4	774.7	743.1
17.5°	913.1	912.4	903.0	885.0	866.3	855.1	852.7	844.4	826.7	800.3	767.0
20°	893.0	894.4	888.1	875.3	866.3	861.4	860.4	857.6	845.1	820.5	787.2
22.5°	871.5	873.9	868.0	861.0	860.4	865.2	865.9	866.6	858.6	834.7	804.2
25°	866.3	868.0	862.1	855.8	859.7	872.5	875.3	878.0	871.8	851.7	824.3
27.5°	892.6	891.2	879.8	866.3	868.7	886.0	889.8	893.0	889.8	872.5	849.3
30°	967.2	962.7	939.8	900.2	887.8	899.9	903.7	912.4	912.4	899.6	876.3
32.5°	1092.1	1083.4	1041.4	963.7	920.4	913.1	916.9	931.1	938.4	928.3	903.0
35°	1243.7	1234.7	1174.7	1070.2	980.0	939.4	938.4	954.4	973.8	951.2	918.3
37.5°	1396.0	1386.6	1314.5	1197.2	1067.1	995.0	988.7	994.3	1002.6	961.3	939.4
40°	1548.3	1537.2	1474.0	1339.1	1173.6	1068.5	1052.2	1027.2	1023.8	994.3	980.4
42.5°	1699.2	1689.1	1657.2	1498.3	1301.3	1140.3	1115.3	1072.3	1085.5	1067.8	1055.7
45°	1851.5	1852.2	1818.2	1677.0	1455.3	1272.8	1239.2	1171.9	1203.1	1196.5	1203.5
47.5°	1986.4	1984.7	1972.6	1850.5	1646.5	1443.5	1400.2	1322.1	1375.5	1399.8	1452.9
50°	2117.2	2116.2	2116.9	2047.2	1868.5	1646.5	1598.6	1516.7	1637.1	1721.4	1816.5
52.5°	2304.6	2310.5	2268.5	2250.1	2138.4	1886.2	1833.5	1748.8	1946.2	2079.1	2264.7
55°	2492.6	2487.7	2454.8	2473.9	2420.8	2170.0	2114.8	2047.5	2290.3	2435.7	2714.6
57.5°	2603.3	2605.0	2638.6	2732.0	2769.4	2523.8	2473.9	2421.8	2677.2	2780.2	3115.0
60°	2702.8	2710.8	2807.6	2983.8	3085.5	2958.5	2914.1	2863.4	3032.0	3073.0	3462.6
62.5°	2734.0	2758.7	2927.6	3191.3	3393.5	3449.0	3393.9	3282.2	3369.9	3354.0	3698.1
65°	2578.3	2611.9	2914.8	3269.0	3668.6	3914.6	3879.6	3672.1	3657.9	3561.8	3736.6
67.5°	2168.2	2201.9	2590.8	3105.9	3782.4	4317.7	4282.7	3956.6	3832.7	3581.2	3445.2
70°	1586.4	1607.6	1979.5	2615.1	3553.8	4453.0	4465.2	4095.3	3770.3	3317.2	2828.8
72.5°	914.1	961.0	1221.5	1839.7	2903.3	4111.0	4195.3	3806.7	3375.5	2767.4	1977.8
75°	393.1	394.1	564.8	1014.7	1966.3	3304.4	3385.9	3155.6	2650.8	1913.6	1056.0
77.5°	187.0	190.5	248.4	453.1	1082.4	2283.1	2503.0	2229.3	1695.4	919.3	399.0
80°	121.4	123.8	151.9	224.8	530.8	1323.8	1477.2	1286.0	748.0	328.5	172.1
82.5°	73.5	74.2	101.6	137.4	292.1	599.5	706.7	558.2	319.2	196.7	101.3
85°	44.8	45.1	61.8	85.0	177.3	207.1	212.7	210.9	187.3	128.7	54.1
87.5°	21.5	22.2	31.9	40.2	69.7	64.2	60.7	70.4	88.5	69.4	23.2
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°	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8
2.5°	650.1	649.1	646.7	645.6	644.9	645.3	644.9	644.9	645.3	645.3	645.3
5°	653.2	651.5	647.7	647.7	649.8	654.6	659.1	662.6	666.4	666.1	666.1
7.5°	666.8	663.7	659.1	660.5	665.7	673.4	681.3	689.0	696.6	697.3	697.0
10°	686.5	683.4	678.6	680.3	688.6	700.1	710.1	721.2	729.6	732.0	731.3
12.5°	709.1	702.9	698.7	703.5	716.7	732.0	741.7	750.0	755.9	759.4	758.0
15°	732.0	726.1	721.2	731.3	747.3	761.5	766.3	767.7	768.8	772.2	771.5
17.5°	754.2	746.2	744.5	757.7	772.9	779.2	776.4	770.5	766.0	768.8	768.4
20°	774.0	767.7	767.0	780.2	786.1	780.2	768.4	758.0	750.0	750.7	750.4
22.5°	792.7	787.8	788.5	794.1	784.7	764.6	745.2	731.0	722.3	724.0	725.1
25°	813.5	808.7	810.4	801.4	770.5	735.5	707.4	695.2	691.8	695.2	697.6
27.5°	840.6	837.5	836.4	801.7	745.2	692.4	660.5	656.0	659.1	666.8	670.6
30°	869.7	869.7	864.2	795.8	710.5	640.8	613.0	613.7	624.4	635.2	639.0
32.5°	897.8	903.7	886.4	779.9	665.7	590.5	569.3	570.0	579.4	592.5	596.0
35°	921.1	938.1	905.5	750.7	613.0	548.1	532.2	522.8	523.1	533.2	536.0
37.5°	953.0	984.5	916.6	707.4	556.8	512.0	494.0	477.7	466.9	462.8	462.8
40°	1008.5	1055.0	919.3	643.2	503.7	477.7	452.0	432.6	411.8	393.1	389.6
42.5°	1102.5	1161.1	913.8	569.3	455.8	439.9	414.9	391.0	362.2	335.8	333.7
45°	1269.0	1299.2	898.9	492.6	413.2	403.5	379.2	353.2	322.6	299.0	297.3
47.5°	1535.8	1493.1	879.1	424.6	374.3	371.5	352.8	322.6	292.1	275.8	274.1
50°	1925.4	1798.4	876.3	375.4	343.1	344.5	329.2	301.5	274.8	261.2	259.1
52.5°	2394.4	2167.2	894.7	340.7	315.7	320.9	313.3	287.6	264.0	252.6	250.5
55°	2849.6	2498.8	905.8	313.6	290.0	299.7	300.8	279.3	257.8	246.3	244.9
57.5°	3219.0	2748.6	856.5	289.0	267.8	282.7	290.4	274.4	254.6	246.0	244.6
60°	3476.1	2866.6	716.4	267.1	251.5	269.2	286.6	274.8	262.3	263.3	264.0
62.5°	3558.0	2814.2	537.4	250.8	240.4	264.7	292.8	289.0	276.1	284.1	285.5
65°	3422.3	2597.7	389.6	238.0	230.7	267.8	311.5	299.4	271.3	277.2	277.2
67.5°	2968.2	2238.0	303.2	226.2	219.6	273.7	330.3	298.3	259.8	266.8	260.5
70°	2354.5	1731.1	252.6	213.0	207.8	265.0	332.0	287.6	246.3	247.7	235.9
72.5°	1562.5	1138.2	217.2	200.5	189.8	238.3	317.8	273.7	233.1	225.1	213.4
75°	765.6	567.6	189.4	184.9	166.2	207.5	298.3	260.5	218.9	206.4	199.8
77.5°	296.6	241.5	161.7	165.1	144.7	182.8	272.7	241.8	200.2	183.2	178.0
80°	144.0	137.0	132.5	137.7	119.0	155.8	249.1	225.5	182.8	164.1	156.5
82.5°	89.5	84.6	101.6	107.2	91.6	142.2	236.3	211.6	161.0	136.0	129.7
85°	45.4	48.6	68.0	73.2	65.6	113.1	194.6	158.9	116.2	96.4	97.1
87.5°	17.3	23.2	35.7	38.5	35.0	59.7	107.2	92.6	74.6	50.6	46.8
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)