

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: P594639

Luminaire Tested: **ISS-PA1C-735-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1C-735-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6331 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

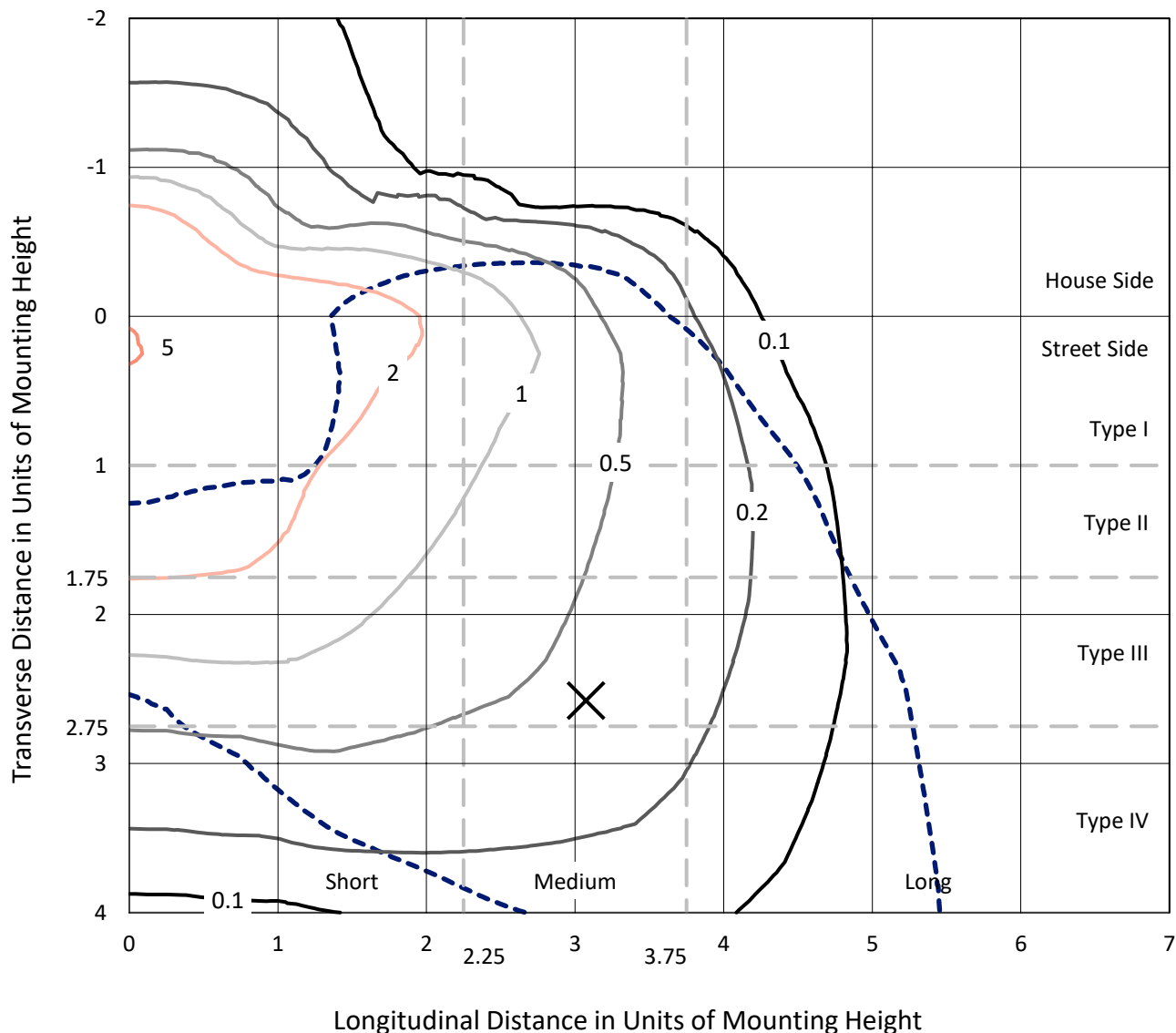
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

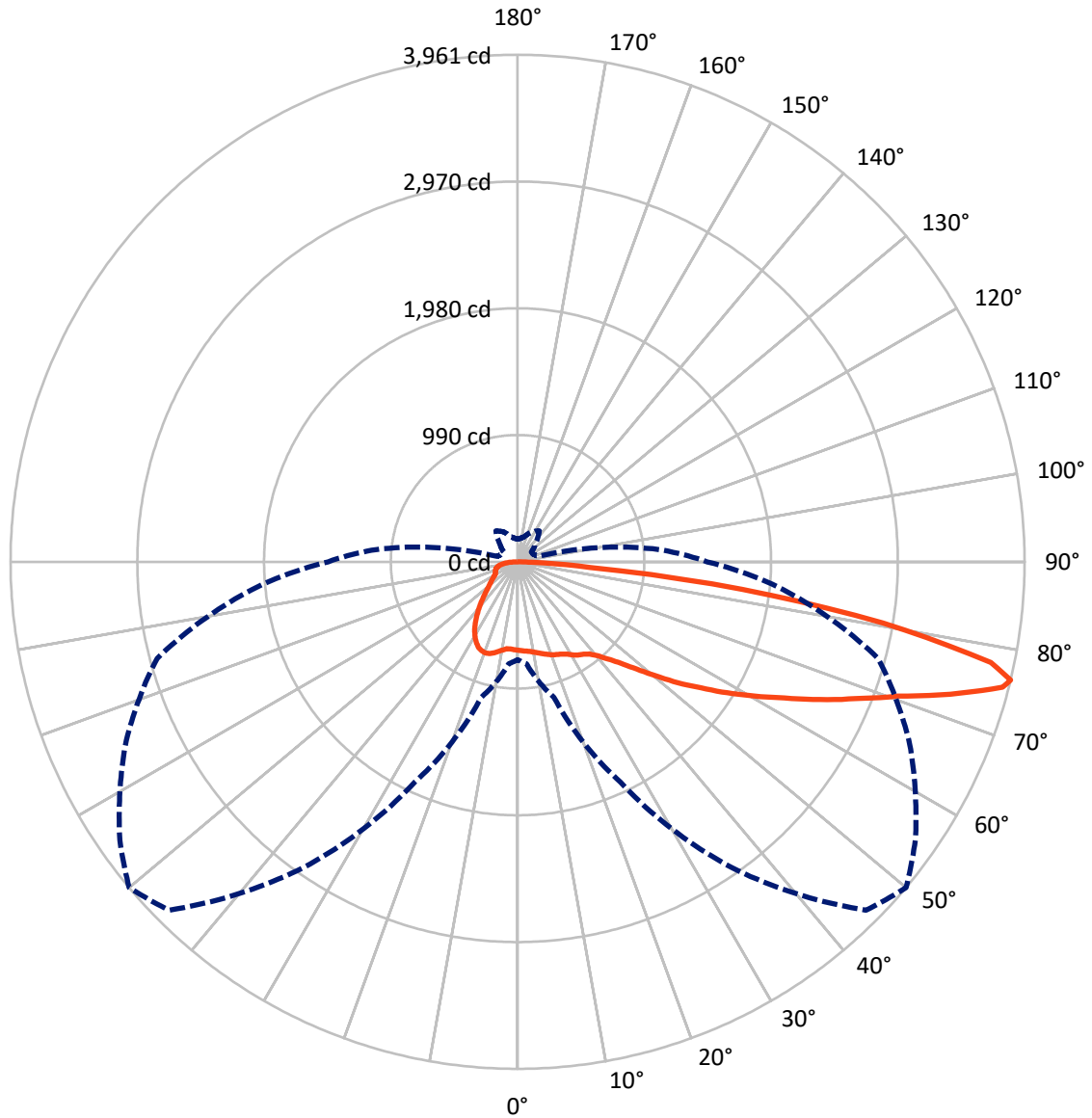
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 76-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1448.3	0.0	1448.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4882.7	0.0	4882.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	6331.0	0.0	6331.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	1.1
10°-20°	210.7	3.3
20°-30°	355.9	5.6
30°-40°	487.8	7.7
40°-50°	718.4	11.3
50°-60°	1130.1	17.9
60°-70°	1626.7	25.7
70°-80°	1479.1	23.4
80°-90°	255.4	4.0
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°	6331.0	100.0
0°-180°	6331.0	100.0

**Coefficient of Utilization**

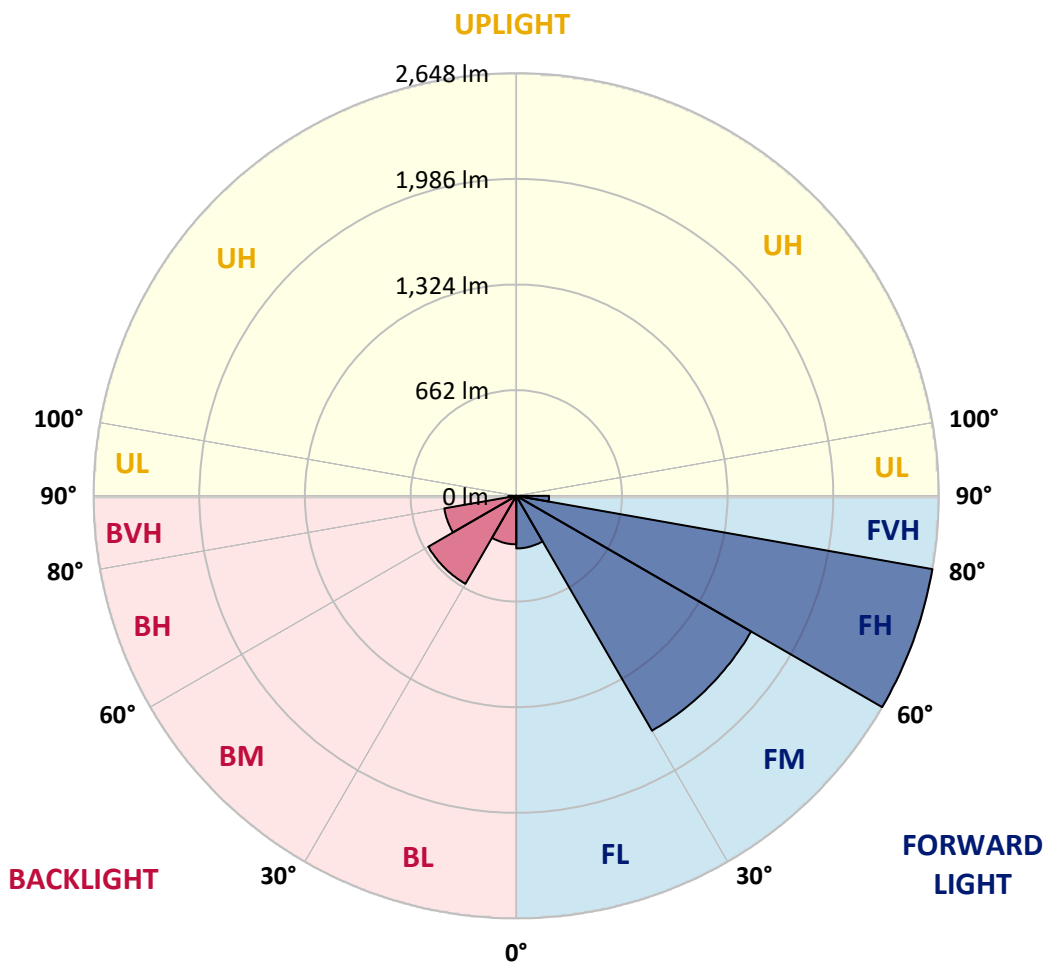


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	329.5	5.2			
FM (30°-60°)	1699.8	26.8			
FH (60°-80°)	2647.9	41.8			G2/5000
FVH (80°-90°)	205.5	3.2			G2/225
BL (0°-30°)	304.0	4.8	B1/500		
BM (30°-60°)	636.5	10.1	B1/1000		
BH (60°-80°)	457.9	7.2	B1/500		G1/500
BVH (80°-90°)	49.8	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1
2.5°	705.6	705.6	707.1	704.0	704.0	696.3	696.3	694.7	691.6	690.1	687.0
5°	731.9	731.9	727.3	719.5	714.9	705.6	700.9	697.8	691.6	683.9	676.1
7.5°	759.8	756.7	753.6	741.2	731.9	714.9	707.1	702.5	690.1	679.2	674.6
10°	789.3	784.7	776.9	761.4	747.4	727.3	718.0	711.8	697.8	688.5	677.7
12.5°	806.4	806.4	797.1	778.5	759.8	735.0	730.4	722.6	708.7	696.3	685.4
15°	823.4	825.0	815.7	794.0	772.3	753.6	745.9	741.2	725.7	707.1	693.2
17.5°	840.5	838.9	829.6	804.8	781.6	764.5	759.8	753.6	738.1	721.1	707.1
20°	852.9	849.8	846.7	815.7	792.4	781.6	775.4	770.7	755.2	736.6	718.0
22.5°	856.0	859.1	856.0	818.8	800.2	787.8	786.2	781.6	769.2	752.1	733.5
25°	857.5	859.1	863.7	828.1	811.0	801.7	798.6	795.5	786.2	772.3	747.4
27.5°	865.3	866.8	866.8	834.3	825.0	818.8	815.7	815.7	811.0	794.0	769.2
30°	866.8	868.4	871.5	849.8	846.7	842.0	843.6	842.0	834.3	815.7	787.8
32.5°	877.7	879.3	887.0	859.1	862.2	866.8	868.4	866.8	851.3	835.8	812.6
35°	913.4	911.8	918.0	882.4	879.3	880.8	885.5	883.9	877.7	863.7	848.2
37.5°	1028.1	1028.1	1011.1	936.6	913.4	910.3	913.4	921.1	922.7	910.3	897.9
40°	1229.7	1218.9	1209.6	1048.3	973.8	955.2	964.5	969.2	981.6	981.6	981.6
42.5°	1437.5	1439.1	1436.0	1222.0	1082.4	1035.9	1037.4	1048.3	1074.6	1079.3	1093.2
45°	1622.0	1632.9	1656.2	1423.5	1242.1	1138.2	1127.4	1138.2	1175.4	1206.5	1242.1
47.5°	1766.3	1753.8	1805.0	1634.4	1425.1	1277.8	1249.9	1253.0	1304.1	1353.8	1409.6
50°	1890.3	1893.4	1916.7	1850.0	1656.2	1436.0	1398.7	1392.5	1465.4	1518.1	1612.7
52.5°	2029.9	2020.6	2054.7	2039.2	1881.0	1629.8	1570.9	1552.3	1631.3	1705.8	1808.1
55°	2096.6	2105.9	2175.6	2214.4	2093.5	1803.5	1738.3	1744.5	1828.3	1907.4	2050.0
57.5°	2214.4	2223.7	2304.4	2385.0	2282.6	1988.0	1930.6	1930.6	2025.2	2113.6	2333.8
60°	2375.7	2377.2	2459.4	2599.0	2448.6	2166.3	2129.1	2127.6	2229.9	2332.3	2668.8
62.5°	2447.0	2465.6	2588.1	2769.6	2665.7	2385.0	2341.6	2354.0	2445.5	2564.9	3042.5
65°	2350.9	2391.2	2647.1	2884.3	2859.5	2612.9	2595.9	2612.9	2668.8	2797.5	3437.9
67.5°	2033.0	2087.3	2538.5	2961.9	3014.6	2876.6	2851.8	2848.6	2884.3	3028.5	3687.6
70°	1868.6	1901.2	2251.6	2991.3	3138.6	3143.3	3143.3	3123.1	3118.5	3223.9	3710.8
72.5°	1538.3	1572.4	1899.6	2826.9	3256.5	3499.9	3535.6	3461.2	3346.4	3324.7	3321.6
75°	1096.3	1121.2	1403.4	2223.7	3106.1	3842.7	3914.0	3769.8	3450.3	3104.5	2422.2
76°	764.5	800.2	1096.3	1899.6	2916.9	3848.9	3960.5	3793.0	3380.5	2915.3	1995.8
77.5°	387.7	400.1	634.2	1276.2	2440.8	3672.1	3780.6	3593.0	3076.6	2355.5	1266.9
80°	147.3	152.0	226.4	465.2	1339.8	2851.8	2893.6	2640.9	2036.1	1006.4	455.9
82.5°	77.5	80.6	127.2	229.5	550.5	1567.8	1769.4	1473.2	798.6	302.4	133.4
85°	38.8	41.9	74.4	139.6	272.9	490.0	567.6	536.5	265.2	114.8	49.6
87.5°	15.5	18.6	37.2	62.0	110.1	96.1	107.0	138.0	85.3	54.3	17.1
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°	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1
2.5°	687.0	685.4	687.0	685.4	687.0	687.0	688.5	685.4	685.4	688.5	683.9
5°	676.1	674.6	676.1	679.2	680.8	683.9	690.1	688.5	691.6	694.7	696.3
7.5°	671.5	669.9	674.6	676.1	680.8	687.0	696.3	702.5	705.6	711.8	708.7
10°	676.1	676.1	682.3	687.0	694.7	702.5	710.2	716.4	724.2	728.8	727.3
12.5°	683.9	682.3	693.2	699.4	710.2	718.0	724.2	727.3	733.5	739.7	738.1
15°	691.6	693.2	708.7	721.1	733.5	736.6	738.1	735.0	738.1	741.2	741.2
17.5°	707.1	708.7	725.7	739.7	750.5	747.4	739.7	731.9	731.9	733.5	735.0
20°	719.5	722.6	742.8	755.2	761.4	749.0	736.6	727.3	722.6	724.2	722.6
22.5°	733.5	739.7	759.8	766.0	756.7	741.2	725.7	713.3	713.3	714.9	714.9
25°	750.5	753.6	767.6	764.5	747.4	724.2	711.8	707.1	705.6	707.1	708.7
27.5°	766.0	767.6	775.4	753.6	721.1	696.3	691.6	693.2	694.7	696.3	697.8
30°	786.2	789.3	781.6	738.1	688.5	660.6	660.6	669.9	673.0	677.7	676.1
32.5°	811.0	814.1	790.9	718.0	646.6	618.7	620.3	634.2	643.5	646.6	648.2
35°	852.9	846.7	797.1	690.1	601.7	567.6	569.1	586.2	598.6	603.2	600.1
37.5°	904.1	902.5	806.4	654.4	545.8	514.8	516.4	524.1	536.5	538.1	539.6
40°	989.4	976.9	821.9	607.9	490.0	460.6	457.5	462.1	460.6	463.7	465.2
42.5°	1111.9	1079.3	842.0	555.2	440.4	409.4	406.3	398.5	389.2	379.9	375.3
45°	1256.1	1204.9	866.8	500.9	389.2	361.3	353.6	344.3	325.6	305.5	299.3
47.5°	1442.2	1344.5	894.8	446.6	341.2	319.4	313.2	299.3	277.6	254.3	249.7
50°	1632.9	1508.8	922.7	401.6	302.4	290.0	283.8	269.8	241.9	220.2	215.5
52.5°	1854.6	1671.7	952.1	361.3	268.3	268.3	263.6	241.9	215.5	195.4	192.3
55°	2110.5	1839.1	998.7	322.5	243.5	249.7	243.5	221.8	196.9	183.0	181.4
57.5°	2416.0	2051.6	1057.6	280.7	221.8	226.4	226.4	210.9	193.8	184.5	183.0
60°	2723.0	2267.1	1094.8	249.7	204.7	209.3	218.6	210.9	200.0	195.4	193.8
62.5°	3017.7	2487.3	1031.2	223.3	187.6	201.6	224.9	226.4	215.5	217.1	217.1
65°	3237.9	2654.8	834.3	200.0	176.8	206.2	243.5	245.0	226.4	221.8	220.2
67.5°	3313.9	2701.3	561.4	184.5	170.6	209.3	265.2	259.0	226.4	217.1	212.4
70°	3169.6	2530.8	364.4	170.6	161.3	206.2	282.2	266.7	224.9	210.9	204.7
72.5°	2657.9	2158.6	243.5	158.2	152.0	203.1	293.1	266.7	220.2	200.0	193.8
75°	1845.3	1474.7	181.4	142.7	138.0	198.5	296.2	262.1	209.3	187.6	183.0
76°	1480.9	1105.7	164.4	136.5	131.8	195.4	294.6	257.4	201.6	181.4	176.8
77.5°	935.1	635.8	138.0	125.6	122.5	189.2	288.4	246.6	190.7	170.6	165.9
80°	327.2	232.6	105.4	102.3	103.9	175.2	271.4	224.9	169.0	150.4	144.2
82.5°	130.3	107.0	79.1	79.1	82.2	150.4	245.0	198.5	147.3	124.1	114.8
85°	51.2	46.5	55.8	55.8	58.9	122.5	204.7	155.1	100.8	77.5	74.4
87.5°	15.5	21.7	24.8	26.4	27.9	62.0	116.3	68.2	45.0	32.6	26.4
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)