

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: P594072

Luminaire Tested: **ISC-PA1B-740-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594072  
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: ISC-PA1B-740-U-T4W  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 4000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5205 lumens  
Efficiency: N/A  
Efficacy: 143.0 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

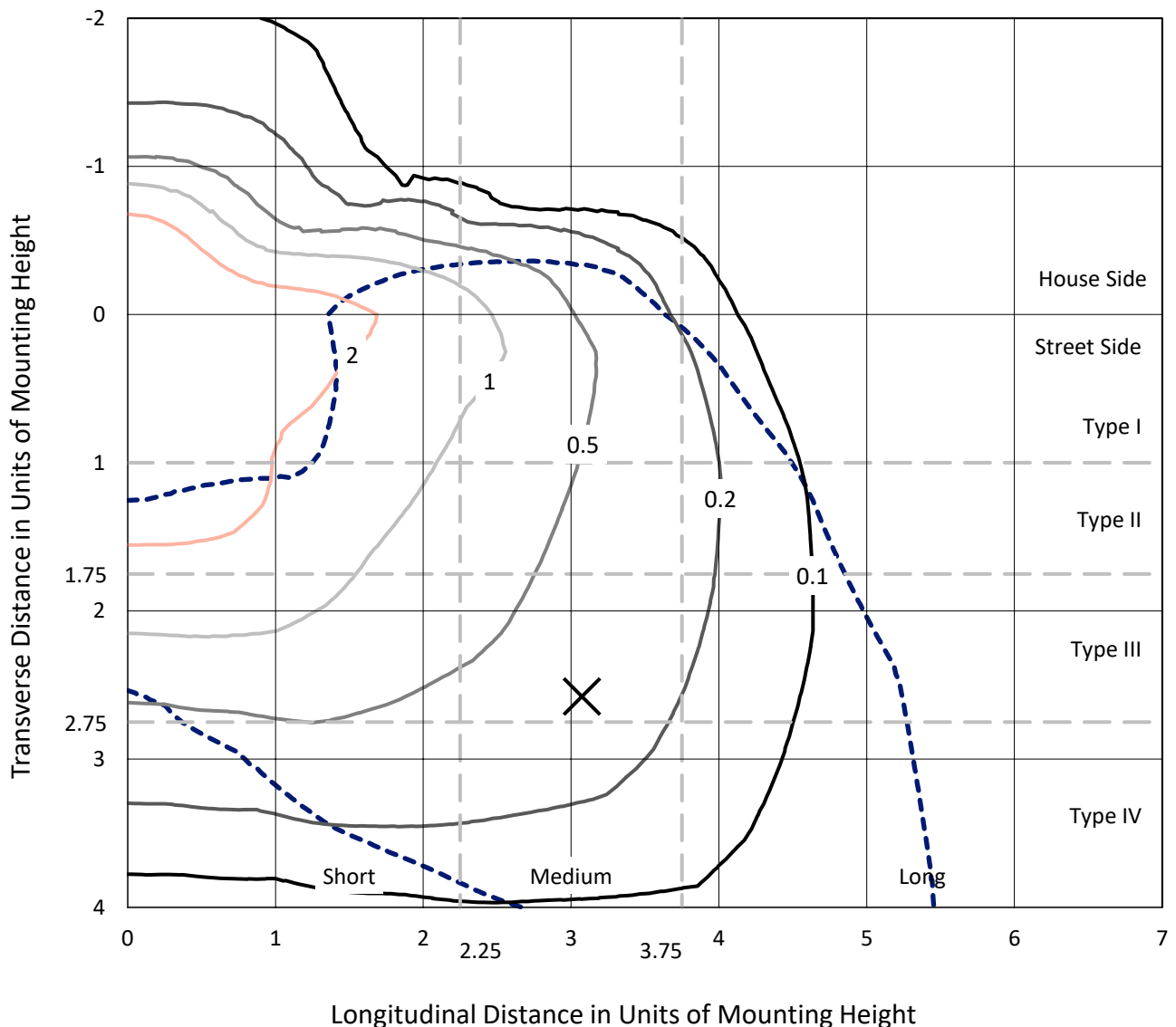
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

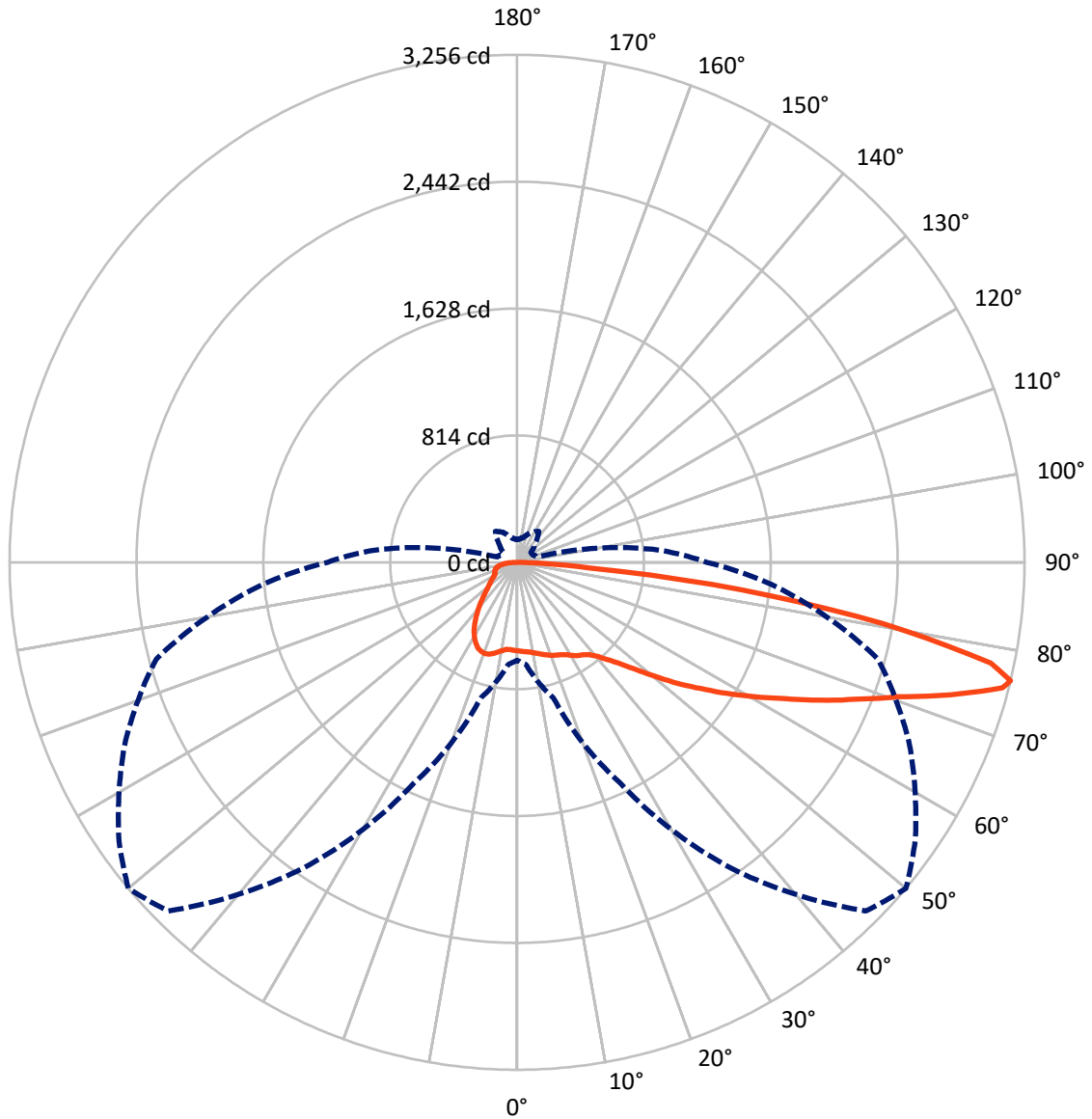
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.3 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	1190.7	0.0	1190.7
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4014.3	0.0	4014.3
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	5205.0	0.0	5205.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	1.1
10°-20°	173.2	3.3
20°-30°	292.6	5.6
30°-40°	401.0	7.7
40°-50°	590.6	11.3
50°-60°	929.1	17.9
60°-70°	1337.4	25.7
70°-80°	1216.0	23.4
80°-90°	209.9	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°	5205.0	100.0
0°-180°	5205.0	100.0

**Coefficient of Utilization**

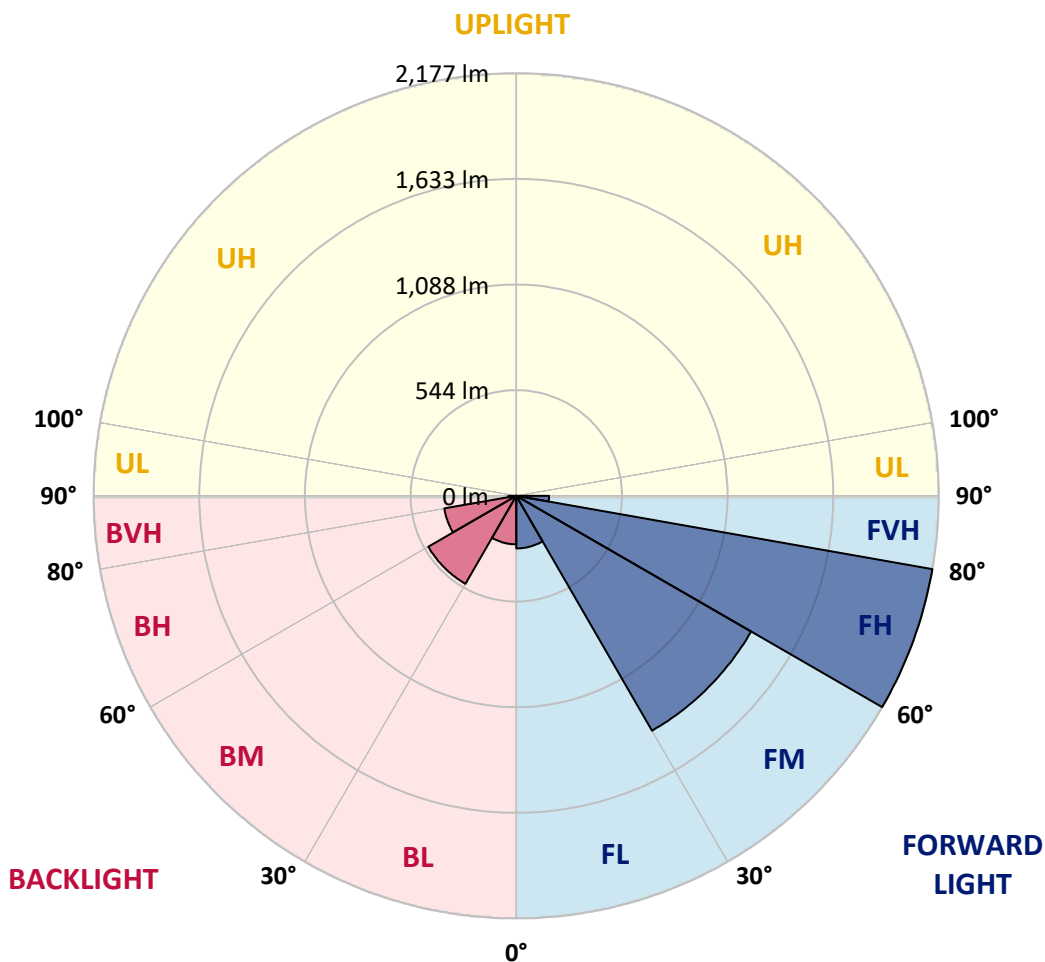


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.9	5.2			
FM (30°-60°)	1397.4	26.8			
FH (60°-80°)	2177.0	41.8			G2/5000
FVH (80°-90°)	169.0	3.2			G2/225
BL (0°-30°)	250.0	4.8	B1/500		
BM (30°-60°)	523.3	10.1	B1/1000		
BH (60°-80°)	376.5	7.2	B1/500		G1/500
BVH (80°-90°)	41.0	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°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
2.5°	580.1	580.1	581.4	578.8	578.8	572.4	572.4	571.2	568.6	567.3	564.8
5°	601.8	601.8	597.9	591.6	587.7	580.1	576.3	573.7	568.6	562.2	555.9
7.5°	624.7	622.2	619.6	609.4	601.8	587.7	581.4	577.5	567.3	558.4	554.6
10°	648.9	645.1	638.7	626.0	614.5	597.9	590.3	585.2	573.7	566.1	557.1
12.5°	663.0	663.0	655.3	640.0	624.7	604.3	600.5	594.1	582.6	572.4	563.5
15°	677.0	678.2	670.6	652.8	634.9	619.6	613.2	609.4	596.7	581.4	569.9
17.5°	691.0	689.7	682.1	661.7	642.6	628.5	624.7	619.6	606.9	592.8	581.4
20°	701.2	698.6	696.1	670.6	651.5	642.6	637.5	633.6	620.9	605.6	590.3
22.5°	703.7	706.3	703.7	673.2	657.9	647.7	646.4	642.6	632.4	618.3	603.0
25°	705.0	706.3	710.1	680.8	666.8	659.1	656.6	654.0	646.4	634.9	614.5
27.5°	711.4	712.7	712.7	685.9	678.2	673.2	670.6	670.6	666.8	652.8	632.4
30°	712.7	713.9	716.5	698.6	696.1	692.3	693.5	692.3	685.9	670.6	647.7
32.5°	721.6	722.9	729.2	706.3	708.8	712.7	713.9	712.7	699.9	687.2	668.1
35°	750.9	749.6	754.7	725.4	722.9	724.1	728.0	726.7	721.6	710.1	697.4
37.5°	845.3	845.3	831.2	770.0	750.9	748.4	750.9	757.3	758.6	748.4	738.2
40°	1011.0	1002.1	994.4	861.8	800.6	785.3	793.0	796.8	807.0	807.0	807.0
42.5°	1181.8	1183.1	1180.6	1004.6	889.9	851.6	852.9	861.8	883.5	887.3	898.8
45°	1333.6	1342.5	1361.6	1170.4	1021.2	935.8	926.9	935.8	966.4	991.9	1021.2
47.5°	1452.1	1441.9	1484.0	1343.8	1171.6	1050.5	1027.6	1030.1	1072.2	1113.0	1158.9
50°	1554.1	1556.7	1575.8	1521.0	1361.6	1180.6	1150.0	1144.9	1204.8	1248.1	1325.9
52.5°	1668.9	1661.2	1689.3	1676.5	1546.5	1339.9	1291.5	1276.2	1341.2	1402.4	1486.5
55°	1723.7	1731.3	1788.7	1820.6	1721.1	1482.7	1429.2	1434.3	1503.1	1568.1	1685.4
57.5°	1820.6	1828.2	1894.5	1960.8	1876.7	1634.4	1587.3	1587.3	1665.0	1737.7	1918.7
60°	1953.2	1954.4	2022.0	2136.7	2013.1	1781.0	1750.4	1749.2	1833.3	1917.5	2194.1
62.5°	2011.8	2027.1	2127.8	2277.0	2191.6	1960.8	1925.1	1935.3	2010.5	2108.7	2501.4
65°	1932.8	1965.9	2176.3	2371.3	2350.9	2148.2	2134.2	2148.2	2194.1	2299.9	2826.5
67.5°	1671.4	1716.0	2087.0	2435.1	2478.4	2365.0	2344.6	2342.0	2371.3	2489.9	3031.7
70°	1536.3	1563.0	1851.2	2459.3	2580.4	2584.2	2584.2	2567.7	2563.8	2650.5	3050.8
72.5°	1264.7	1292.8	1561.8	2324.2	2677.3	2877.5	2906.8	2845.6	2751.2	2733.4	2730.8
75°	901.4	921.8	1153.8	1828.2	2553.6	3159.2	3217.9	3099.3	2836.7	2552.4	1991.4
76°	628.5	657.9	901.4	1561.8	2398.1	3164.3	3256.1	3118.4	2779.3	2396.8	1640.8
77.5°	318.7	328.9	521.4	1049.2	2006.7	3019.0	3108.2	2954.0	2529.4	1936.6	1041.6
80°	121.1	124.9	186.1	382.5	1101.5	2344.6	2379.0	2171.2	1674.0	827.4	374.8
82.5°	63.7	66.3	104.5	188.7	452.6	1288.9	1454.7	1211.2	656.6	248.6	109.6
85°	31.9	34.4	61.2	114.7	224.4	402.9	466.6	441.1	218.0	94.3	40.8
87.5°	12.7	15.3	30.6	51.0	90.5	79.0	88.0	113.5	70.1	44.6	14.0
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°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
2.5°	564.8	563.5	564.8	563.5	564.8	564.8	566.1	563.5	563.5	566.1	562.2
5°	555.9	554.6	555.9	558.4	559.7	562.2	567.3	566.1	568.6	571.2	572.4
7.5°	552.0	550.8	554.6	555.9	559.7	564.8	572.4	577.5	580.1	585.2	582.6
10°	555.9	555.9	561.0	564.8	571.2	577.5	583.9	589.0	595.4	599.2	597.9
12.5°	562.2	561.0	569.9	575.0	583.9	590.3	595.4	597.9	603.0	608.1	606.9
15°	568.6	569.9	582.6	592.8	603.0	605.6	606.9	604.3	606.9	609.4	609.4
17.5°	581.4	582.6	596.7	608.1	617.1	614.5	608.1	601.8	601.8	603.0	604.3
20°	591.6	594.1	610.7	620.9	626.0	615.8	605.6	597.9	594.1	595.4	594.1
22.5°	603.0	608.1	624.7	629.8	622.2	609.4	596.7	586.5	586.5	587.7	587.7
25°	617.1	619.6	631.1	628.5	614.5	595.4	585.2	581.4	580.1	581.4	582.6
27.5°	629.8	631.1	637.5	619.6	592.8	572.4	568.6	569.9	571.2	572.4	573.7
30°	646.4	648.9	642.6	606.9	566.1	543.1	543.1	550.8	553.3	557.1	555.9
32.5°	666.8	669.3	650.2	590.3	531.6	508.7	510.0	521.4	529.1	531.6	532.9
35°	701.2	696.1	655.3	567.3	494.7	466.6	467.9	481.9	492.1	495.9	493.4
37.5°	743.3	742.0	663.0	538.0	448.8	423.3	424.5	430.9	441.1	442.4	443.7
40°	813.4	803.2	675.7	499.8	402.9	378.6	376.1	379.9	378.6	381.2	382.5
42.5°	914.1	887.3	692.3	456.4	362.1	336.6	334.0	327.7	320.0	312.4	308.5
45°	1032.7	990.6	712.7	411.8	320.0	297.1	290.7	283.0	267.7	251.2	246.1
47.5°	1185.7	1105.3	735.6	367.2	280.5	262.6	257.5	246.1	228.2	209.1	205.3
50°	1342.5	1240.5	758.6	330.2	248.6	238.4	233.3	221.8	198.9	181.0	177.2
52.5°	1524.8	1374.3	782.8	297.1	220.6	220.6	216.7	198.9	177.2	160.6	158.1
55°	1735.1	1512.0	821.0	265.2	200.2	205.3	200.2	182.3	161.9	150.4	149.2
57.5°	1986.3	1686.7	869.5	230.8	182.3	186.1	186.1	173.4	159.4	151.7	150.4
60°	2238.7	1863.9	900.1	205.3	168.3	172.1	179.8	173.4	164.5	160.6	159.4
62.5°	2481.0	2044.9	847.8	183.6	154.3	165.7	184.9	186.1	177.2	178.5	178.5
65°	2662.0	2182.6	685.9	164.5	145.3	169.6	200.2	201.4	186.1	182.3	181.0
67.5°	2724.5	2220.9	461.5	151.7	140.2	172.1	218.0	212.9	186.1	178.5	174.7
70°	2605.9	2080.6	299.6	140.2	132.6	169.6	232.0	219.3	184.9	173.4	168.3
72.5°	2185.2	1774.7	200.2	130.0	124.9	167.0	241.0	219.3	181.0	164.5	159.4
75°	1517.1	1212.4	149.2	117.3	113.5	163.2	243.5	215.5	172.1	154.3	150.4
76°	1217.5	909.0	135.1	112.2	108.4	160.6	242.2	211.6	165.7	149.2	145.3
77.5°	768.8	522.7	113.5	103.3	100.7	155.5	237.1	202.7	156.8	140.2	136.4
80°	269.0	191.2	86.7	84.1	85.4	144.1	223.1	184.9	139.0	123.7	118.6
82.5°	107.1	88.0	65.0	65.0	67.6	123.7	201.4	163.2	121.1	102.0	94.3
85°	42.1	38.2	45.9	45.9	48.4	100.7	168.3	127.5	82.9	63.7	61.2
87.5°	12.7	17.8	20.4	21.7	22.9	51.0	95.6	56.1	37.0	26.8	21.7
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)