

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: P594756

Luminaire Tested: **ISS-PA1D-827-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594756
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-PA1D-827-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6224 lumens
Efficiency: N/A
Efficacy: 98.8 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

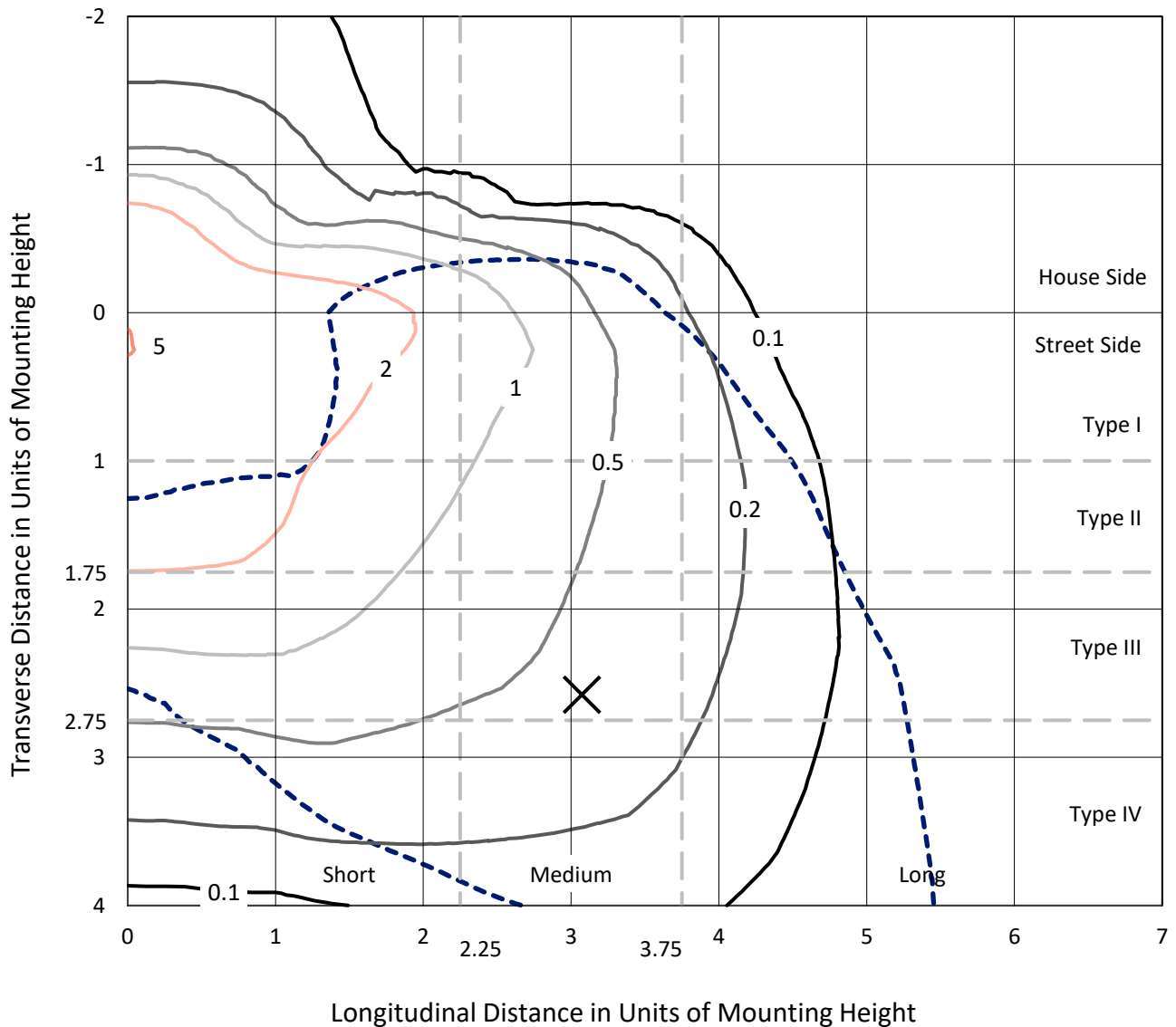
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

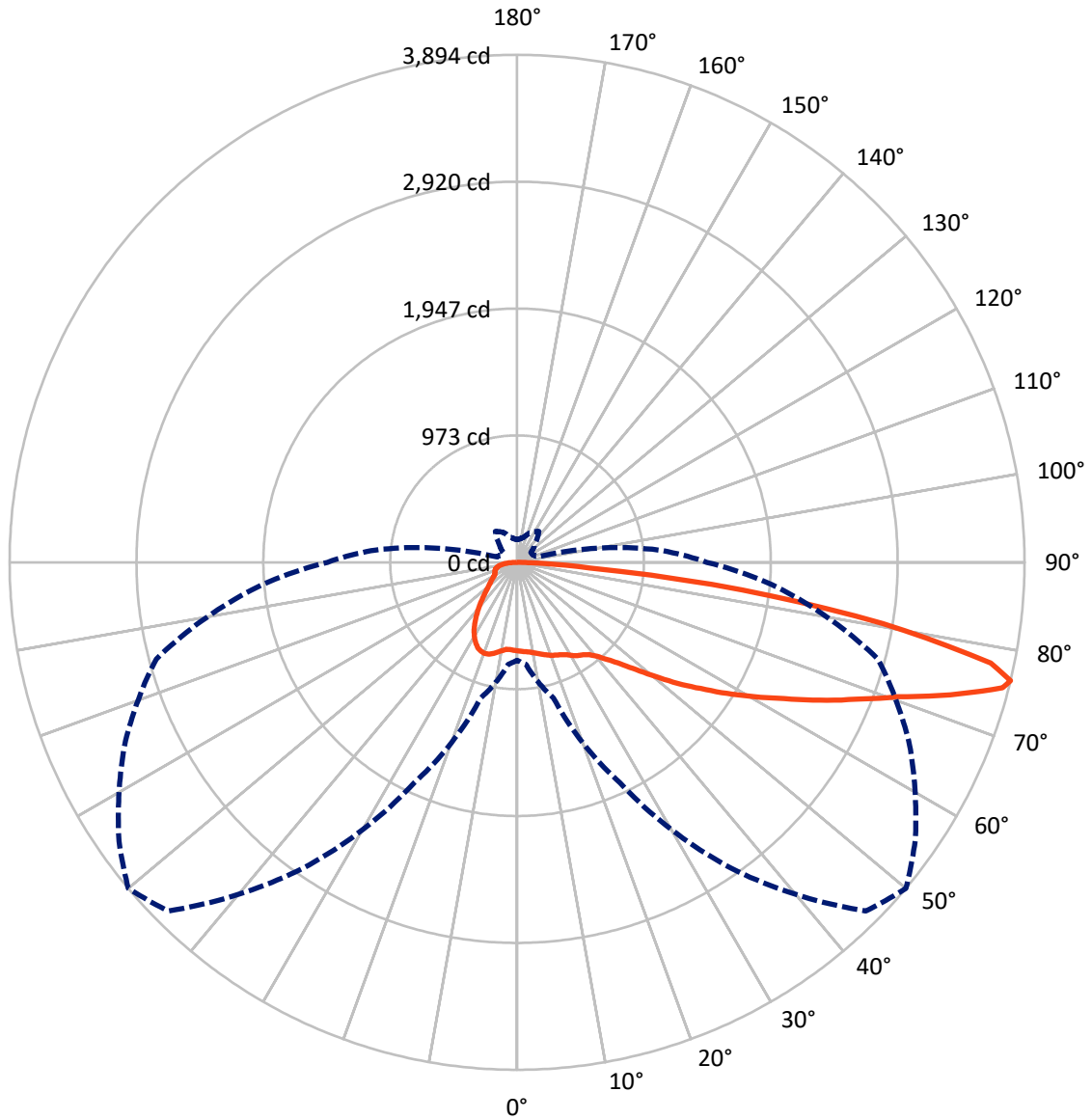
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.1 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
House Side	Lumens	1423.8	0.0	1423.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4800.2	0.0	4800.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	6224.0	0.0	6224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.1
10°-20°	207.1	3.3
20°-30°	349.8	5.6
30°-40°	479.5	7.7
40°-50°	706.3	11.3
50°-60°	1111.0	17.9
60°-70°	1599.2	25.7
70°-80°	1454.1	23.4
80°-90°	251.0	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°	6224.0	100.0
0°-180°	6224.0	100.0

Coefficient of Utilization

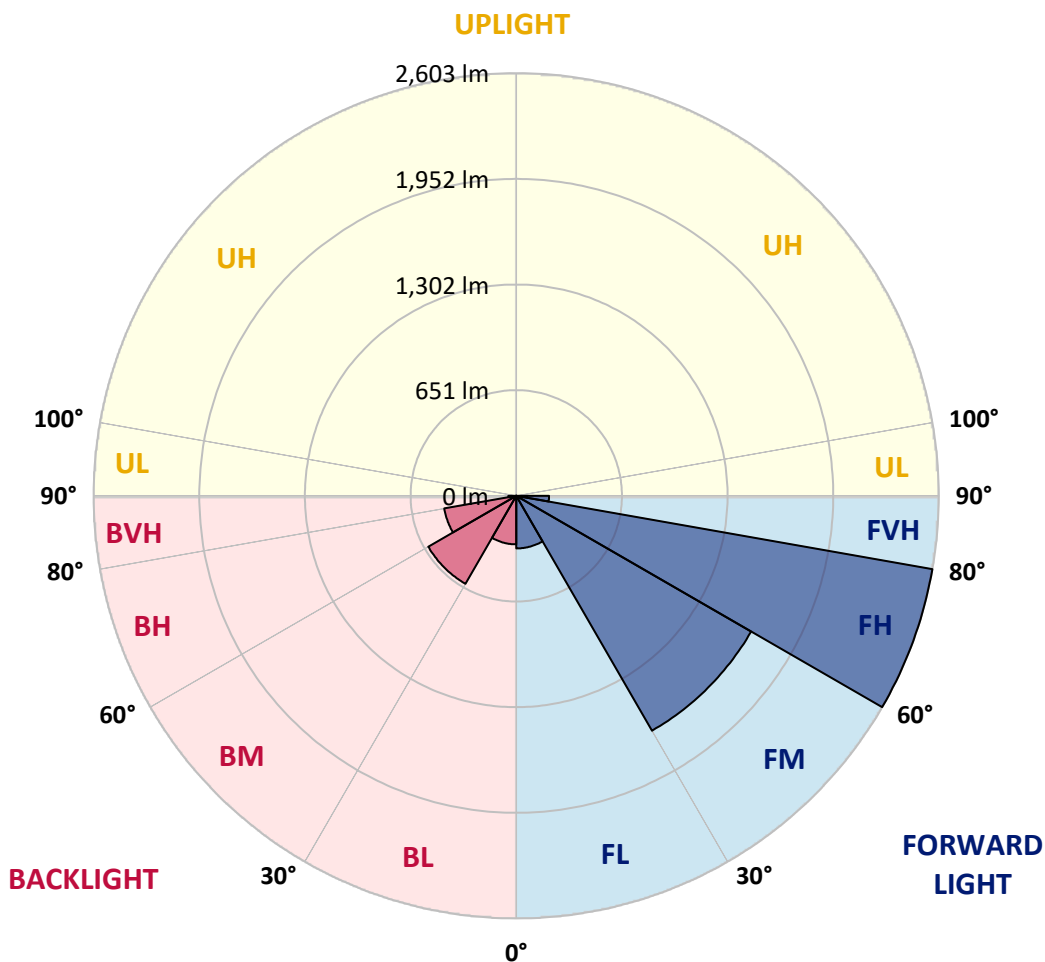


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.9	5.2			
FM (30°-60°)	1671.0	26.8			
FH (60°-80°)	2603.2	41.8			G2/5000
FVH (80°-90°)	202.1	3.2			G2/225
BL (0°-30°)	298.9	4.8	B1/500		
BM (30°-60°)	625.8	10.1	B1/1000		
BH (60°-80°)	450.2	7.2	B1/500		G1/500
BVH (80°-90°)	49.0	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°	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4
2.5°	693.6	693.6	695.2	692.1	692.1	684.5	684.5	683.0	679.9	678.4	675.4
5°	719.6	719.6	715.0	707.4	702.8	693.6	689.1	686.0	679.9	672.3	664.7
7.5°	747.0	744.0	740.9	728.7	719.6	702.8	695.2	690.6	678.4	667.7	663.2
10°	776.0	771.4	763.8	748.5	734.8	715.0	705.8	699.7	686.0	676.9	666.2
12.5°	792.7	792.7	783.6	765.3	747.0	722.6	718.0	710.4	696.7	684.5	673.8
15°	809.5	811.0	801.9	780.5	759.2	740.9	733.3	728.7	713.5	695.2	681.5
17.5°	826.3	824.8	815.6	791.2	768.3	751.6	747.0	740.9	725.7	708.9	695.2
20°	838.5	835.4	832.4	801.9	779.0	768.3	762.2	757.7	742.4	724.1	705.8
22.5°	841.5	844.6	841.5	804.9	786.6	774.4	772.9	768.3	756.2	739.4	721.1
25°	843.0	844.6	849.1	814.1	797.3	788.2	785.1	782.1	772.9	759.2	734.8
27.5°	850.7	852.2	852.2	820.2	811.0	804.9	801.9	801.9	797.3	780.5	756.2
30°	852.2	853.7	856.8	835.4	832.4	827.8	829.3	827.8	820.2	801.9	774.4
32.5°	862.9	864.4	872.0	844.6	847.6	852.2	853.7	852.2	836.9	821.7	798.8
35°	897.9	896.4	902.5	867.4	864.4	865.9	870.5	869.0	862.9	849.1	833.9
37.5°	1010.7	1010.7	994.0	920.8	897.9	894.9	897.9	905.6	907.1	894.9	882.7
40°	1208.9	1198.3	1189.1	1030.6	957.4	939.1	948.2	952.8	965.0	965.0	965.0
42.5°	1413.2	1414.7	1411.7	1201.3	1064.1	1018.4	1019.9	1030.6	1056.5	1061.1	1074.8
45°	1594.6	1605.3	1628.2	1399.5	1221.1	1119.0	1108.3	1119.0	1155.6	1186.1	1221.1
47.5°	1736.4	1724.2	1774.5	1606.8	1401.0	1256.2	1228.7	1231.8	1282.1	1330.9	1385.8
50°	1858.4	1861.4	1884.3	1818.7	1628.2	1411.7	1375.1	1369.0	1440.7	1492.5	1585.5
52.5°	1995.6	1986.4	2020.0	2004.7	1849.2	1602.2	1544.3	1526.0	1603.8	1676.9	1777.6
55°	2061.1	2070.3	2138.9	2177.0	2058.1	1773.0	1709.0	1715.1	1797.4	1875.1	2015.4
57.5°	2177.0	2186.1	2265.4	2344.7	2244.1	1954.4	1898.0	1898.0	1991.0	2077.9	2294.4
60°	2335.5	2337.1	2417.9	2555.1	2407.2	2129.7	2093.1	2091.6	2192.2	2292.8	2623.7
62.5°	2405.7	2424.0	2544.4	2722.8	2620.6	2344.7	2302.0	2314.2	2404.1	2521.5	2991.1
65°	2311.1	2350.8	2602.3	2835.6	2811.2	2568.8	2552.0	2568.8	2623.7	2750.2	3379.8
67.5°	1998.6	2052.0	2495.6	2911.8	2963.6	2827.9	2803.6	2800.5	2835.6	2977.3	3625.3
70°	1837.0	1869.0	2213.6	2940.8	3085.6	3090.2	3090.2	3070.3	3065.8	3169.4	3648.1
72.5°	1512.3	1545.8	1867.5	2779.2	3201.4	3440.8	3475.9	3402.7	3289.9	3268.5	3265.5
75°	1077.8	1102.2	1379.7	2186.1	3053.6	3777.7	3847.8	3706.1	3392.0	3052.0	2381.3
76°	751.6	786.6	1077.8	1867.5	2867.6	3783.8	3893.6	3728.9	3323.4	2866.1	1962.0
77.5°	381.1	393.3	623.5	1254.7	2399.6	3610.0	3716.7	3532.3	3024.6	2315.7	1245.5
80°	144.8	149.4	222.6	457.3	1317.2	2803.6	2844.7	2596.2	2001.7	989.4	448.2
82.5°	76.2	79.3	125.0	225.6	541.2	1541.3	1739.5	1448.3	785.1	297.3	131.1
85°	38.1	41.2	73.2	137.2	268.3	481.7	558.0	527.5	260.7	112.8	48.8
87.5°	15.2	18.3	36.6	61.0	108.2	94.5	105.2	135.7	83.8	53.4	16.8
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°	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4
2.5°	675.4	673.8	675.4	673.8	675.4	675.4	676.9	673.8	673.8	676.9	672.3
5°	664.7	663.2	664.7	667.7	669.3	672.3	678.4	676.9	679.9	683.0	684.5
7.5°	660.1	658.6	663.2	664.7	669.3	675.4	684.5	690.6	693.6	699.7	696.7
10°	664.7	664.7	670.8	675.4	683.0	690.6	698.2	704.3	711.9	716.5	715.0
12.5°	672.3	670.8	681.5	687.5	698.2	705.8	711.9	715.0	721.1	727.2	725.7
15°	679.9	681.5	696.7	708.9	721.1	724.1	725.7	722.6	725.7	728.7	728.7
17.5°	695.2	696.7	713.5	727.2	737.9	734.8	727.2	719.6	719.6	721.1	722.6
20°	707.4	710.4	730.2	742.4	748.5	736.3	724.1	715.0	710.4	711.9	710.4
22.5°	721.1	727.2	747.0	753.1	744.0	728.7	713.5	701.3	701.3	702.8	702.8
25°	737.9	740.9	754.6	751.6	734.8	711.9	699.7	695.2	693.6	695.2	696.7
27.5°	753.1	754.6	762.2	740.9	708.9	684.5	679.9	681.5	683.0	684.5	686.0
30°	772.9	776.0	768.3	725.7	676.9	649.4	649.4	658.6	661.6	666.2	664.7
32.5°	797.3	800.4	777.5	705.8	635.7	608.3	609.8	623.5	632.7	635.7	637.2
35°	838.5	832.4	783.6	678.4	591.5	558.0	559.5	576.3	588.5	593.0	590.0
37.5°	888.8	887.3	792.7	643.3	536.6	506.1	507.7	515.3	527.5	529.0	530.5
40°	972.6	960.4	808.0	597.6	481.7	452.8	449.7	454.3	452.8	455.8	457.3
42.5°	1093.1	1061.1	827.8	545.8	433.0	402.5	399.4	391.8	382.6	373.5	368.9
45°	1234.8	1184.5	852.2	492.4	382.6	355.2	347.6	338.4	320.1	300.3	294.2
47.5°	1417.8	1321.7	879.6	439.1	335.4	314.0	307.9	294.2	272.9	250.0	245.4
50°	1605.3	1483.3	907.1	394.8	297.3	285.1	279.0	265.3	237.8	216.5	211.9
52.5°	1823.3	1643.4	936.0	355.2	263.7	263.7	259.2	237.8	211.9	192.1	189.0
55°	2074.8	1808.1	981.8	317.1	239.3	245.4	239.3	218.0	193.6	179.9	178.4
57.5°	2375.2	2016.9	1039.7	275.9	218.0	222.6	222.6	207.3	190.6	181.4	179.9
60°	2677.0	2228.8	1076.3	245.4	201.2	205.8	215.0	207.3	196.7	192.1	190.6
62.5°	2966.7	2445.3	1013.8	219.5	184.5	198.2	221.1	222.6	211.9	213.4	213.4
65°	3183.2	2609.9	820.2	196.7	173.8	202.8	239.3	240.9	222.6	218.0	216.5
67.5°	3257.9	2655.7	551.9	181.4	167.7	205.8	260.7	254.6	222.6	213.4	208.9
70°	3116.1	2488.0	358.3	167.7	158.5	202.8	277.5	262.2	221.1	207.3	201.2
72.5°	2613.0	2122.1	239.3	155.5	149.4	199.7	288.1	262.2	216.5	196.7	190.6
75°	1814.2	1449.8	178.4	140.3	135.7	195.1	291.2	257.6	205.8	184.5	179.9
76°	1455.9	1087.0	161.6	134.2	129.6	192.1	289.7	253.1	198.2	178.4	173.8
77.5°	919.3	625.0	135.7	123.5	120.4	186.0	283.6	242.4	187.5	167.7	163.1
80°	321.7	228.7	103.7	100.6	102.1	172.3	266.8	221.1	166.2	147.9	141.8
82.5°	128.1	105.2	77.7	77.7	80.8	147.9	240.9	195.1	144.8	122.0	112.8
85°	50.3	45.7	54.9	54.9	57.9	120.4	201.2	152.4	99.1	76.2	73.2
87.5°	15.2	21.3	24.4	25.9	27.4	61.0	114.3	67.1	44.2	32.0	25.9
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)