

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: P594863

Luminaire Tested: **ISS-PA1F-727-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1F-727-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7240 lumens
Efficiency: N/A
Efficacy: 76.7 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

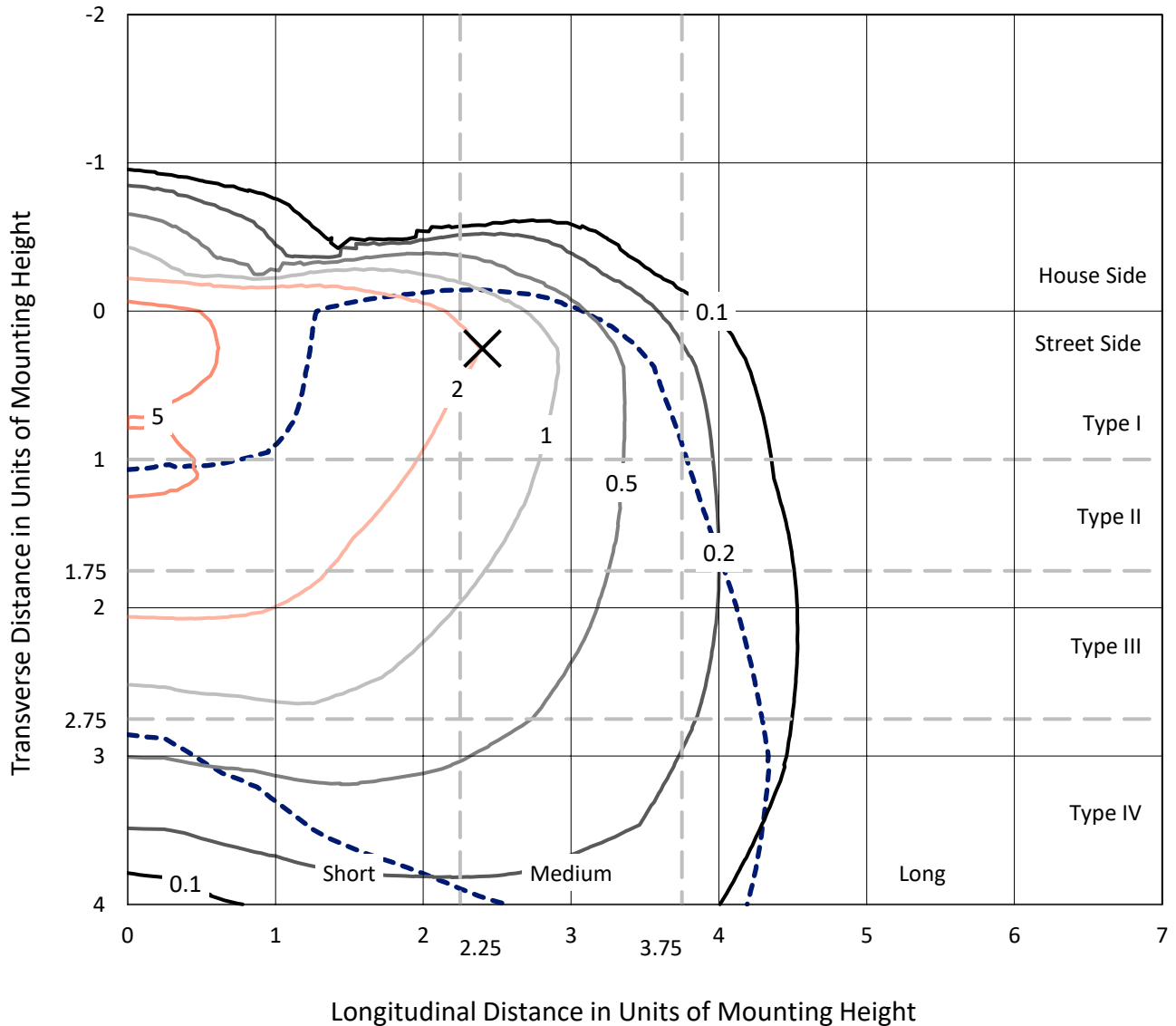
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

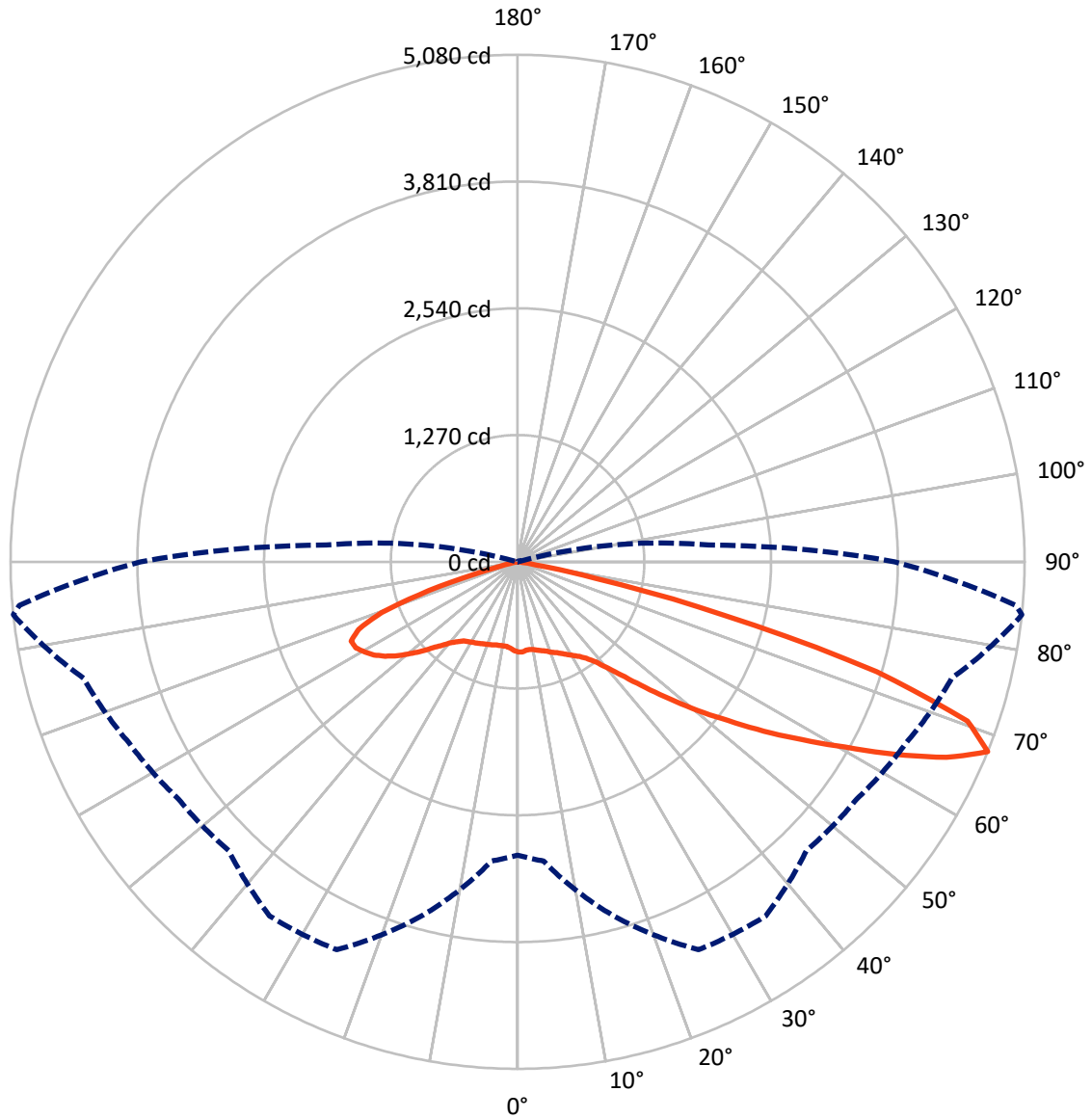
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.3	0.0	630.3
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	6609.6	0.0	6609.6
	% Fixture	91.3	0.0	91.3
Total	Lumens	7240.0	0.0	7240.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	1.1
10°-20°	211.5	2.9
20°-30°	338.8	4.7
30°-40°	487.6	6.7
40°-50°	836.9	11.6
50°-60°	1462.2	20.2
60°-70°	2093.9	28.9
70°-80°	1573.8	21.7
80°-90°	154.5	2.1
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°	7240.0	100.0
0°-180°	7240.0	100.0

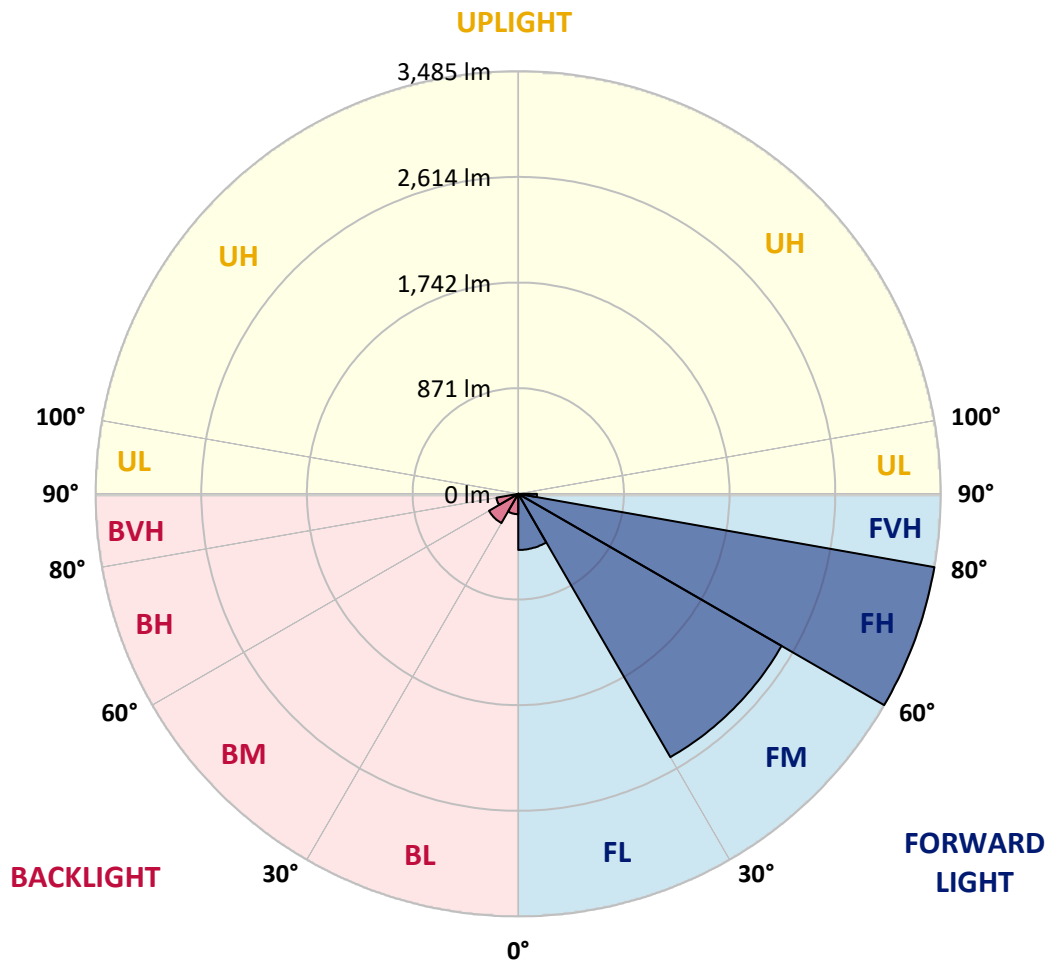


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.9	6.4			
FM (30°-60°)	2507.9	34.6			
FH (60°-80°)	3484.9	48.1			G2/5000
FVH (80°-90°)	154.0	2.1			G2/225
BL (0°-30°)	168.3	2.3	B1/500		
BM (30°-60°)	278.8	3.9	B1/1000		
BH (60°-80°)	182.8	2.5	B1/500		G1/500
BVH (80°-90°)	0.5	0.0			G0/10
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°	55°	65°	75°	84°	85°
0°	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0
2.5°	953.4	958.2	960.7	948.5	948.5	938.7	924.0	919.1	911.8	904.5	902.0
5°	1002.2	1009.6	1007.1	992.5	985.1	965.6	946.0	926.5	906.9	889.8	889.8
7.5°	1058.5	1060.9	1053.6	1029.1	1014.5	987.6	958.2	936.2	911.8	887.3	882.5
10°	1107.4	1104.9	1095.1	1070.7	1043.8	1009.6	977.8	953.4	924.0	894.7	892.2
12.5°	1141.6	1144.0	1131.8	1097.6	1070.7	1031.6	999.8	975.4	941.1	909.4	902.0
15°	1170.9	1178.2	1163.6	1129.4	1090.2	1056.0	1031.6	999.8	960.7	924.0	919.1
17.5°	1197.8	1200.2	1188.0	1148.9	1112.2	1082.9	1056.0	1026.7	987.6	941.1	936.2
20°	1212.5	1219.8	1212.5	1163.6	1129.4	1107.4	1085.4	1056.0	1012.0	968.0	963.1
22.5°	1222.2	1229.6	1227.1	1173.4	1144.0	1126.9	1107.4	1080.5	1038.9	987.6	982.7
25°	1227.1	1232.0	1236.9	1183.1	1158.7	1151.4	1134.2	1109.8	1070.7	1016.9	1012.0
27.5°	1234.5	1239.4	1244.2	1195.4	1185.6	1178.2	1173.4	1153.8	1107.4	1051.1	1043.8
30°	1246.7	1254.0	1258.9	1217.4	1217.4	1224.7	1224.7	1197.8	1146.5	1087.8	1082.9
32.5°	1261.4	1263.8	1273.6	1239.4	1251.6	1268.7	1263.8	1236.9	1183.1	1129.4	1122.0
35°	1300.5	1300.5	1317.6	1273.6	1288.2	1302.9	1307.8	1288.2	1239.4	1185.6	1183.1
37.5°	1395.8	1395.8	1410.5	1339.6	1337.1	1351.8	1368.9	1368.9	1320.0	1271.1	1266.2
40°	1610.9	1610.9	1610.9	1447.1	1420.2	1437.4	1464.2	1478.9	1437.4	1403.1	1403.1
42.5°	1970.3	1972.7	1936.0	1645.1	1530.3	1559.6	1588.9	1620.7	1598.7	1574.3	1569.4
45°	2341.8	2329.6	2324.7	1936.0	1725.8	1711.1	1747.8	1801.6	1808.9	1794.3	1804.0
47.5°	2596.0	2608.3	2615.6	2297.8	1999.6	1899.4	1933.6	2009.4	2053.4	2050.9	2065.6
50°	2842.9	2850.3	2857.6	2696.3	2361.4	2136.5	2158.5	2261.2	2322.3	2341.8	2351.6
52.5°	3058.1	3038.5	3070.3	3048.3	2745.2	2407.8	2407.8	2525.2	2635.2	2642.5	2640.0
55°	3121.6	3133.8	3229.2	3295.2	3138.7	2740.3	2691.4	2816.1	2933.4	2994.5	2994.5
57.5°	3263.4	3275.6	3390.5	3539.6	3424.7	3067.8	2994.5	3116.7	3243.8	3361.2	3378.3
60°	3449.2	3451.6	3573.8	3801.2	3642.3	3363.6	3302.5	3441.8	3569.0	3769.4	3825.6
62.5°	3549.4	3559.2	3727.8	4026.1	3916.1	3622.7	3608.1	3735.2	3899.0	4251.0	4302.3
65°	3395.4	3459.0	3825.6	4160.5	4138.5	3864.7	3916.1	4018.7	4207.0	4722.8	4771.6
67.5°	2938.3	3009.2	3664.3	4287.6	4331.6	4092.1	4145.9	4295.0	4502.8	5079.6	5011.2
70°	2706.1	2764.7	3273.2	4358.5	4493.0	4346.3	4370.7	4510.1	4571.2	4781.4	4708.1
72.5°	2050.9	2112.0	2769.6	4116.5	4632.3	4612.8	4551.6	4436.7	4075.0	3762.1	3583.6
75°	906.9	977.8	1843.1	3216.9	4287.6	4764.3	4441.6	3798.7	2926.1	2136.5	1980.0
77.5°	400.9	442.5	713.8	1786.9	3221.8	4123.9	3512.7	2532.5	1469.1	794.5	738.2
80°	129.6	134.4	224.9	625.8	1647.6	2730.5	2151.2	1217.4	452.2	185.8	173.6
82.5°	51.3	56.2	107.6	264.0	682.0	1085.4	1056.0	440.0	132.0	48.9	48.9
85°	14.7	17.1	53.8	139.3	242.0	305.6	374.0	146.7	70.9	14.7	14.7
87.5°	4.9	4.9	19.6	44.0	46.4	31.8	70.9	56.2	44.0	4.9	4.9
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°	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0
2.5°	897.1	892.2	880.0	870.2	865.3	858.0	848.2	843.3	843.3	840.9	833.6
5°	880.0	872.7	850.7	836.0	823.8	796.9	777.3	752.9	728.5	721.1	728.5
7.5°	872.7	858.0	828.7	799.3	748.0	677.1	630.7	579.3	562.2	540.2	542.7
10°	875.1	858.0	816.5	750.5	650.2	545.1	471.8	403.3	369.1	352.0	354.5
12.5°	882.5	862.9	804.2	684.5	540.2	413.1	300.7	246.9	237.1	237.1	237.1
15°	897.1	867.8	784.7	606.2	422.9	273.8	212.7	207.8	215.1	222.4	224.9
17.5°	911.8	882.5	755.3	525.6	308.0	205.3	198.0	198.0	205.3	212.7	215.1
20°	928.9	897.1	713.8	440.0	220.0	193.1	190.7	188.2	193.1	200.4	202.9
22.5°	955.8	911.8	664.9	339.8	190.7	185.8	180.9	178.4	180.9	188.2	190.7
25°	980.2	931.4	613.6	251.8	178.4	173.6	171.1	168.7	168.7	173.6	176.0
27.5°	1009.6	953.4	557.3	188.2	163.8	161.3	158.9	156.4	154.0	158.9	161.3
30°	1046.2	972.9	496.2	158.9	149.1	146.7	144.2	141.8	139.3	141.8	144.2
32.5°	1092.7	999.8	425.3	144.2	136.9	129.6	127.1	127.1	124.7	124.7	127.1
35°	1153.8	1029.1	349.6	134.4	124.7	117.3	110.0	107.6	107.6	107.6	110.0
37.5°	1244.2	1082.9	276.2	124.7	114.9	102.7	95.3	88.0	88.0	88.0	88.0
40°	1368.9	1141.6	215.1	117.3	107.6	90.4	80.7	70.9	66.0	63.6	66.0
42.5°	1562.0	1229.6	166.2	107.6	102.7	80.7	66.0	53.8	44.0	41.6	44.0
45°	1774.7	1324.9	132.0	100.2	92.9	68.4	51.3	36.7	26.9	24.4	26.9
47.5°	2043.6	1444.7	112.4	90.4	80.7	56.2	36.7	19.6	12.2	14.7	14.7
50°	2302.7	1562.0	102.7	83.1	70.9	46.4	22.0	9.8	4.9	7.3	7.3
52.5°	2588.7	1686.7	95.3	73.3	61.1	34.2	12.2	2.4	0.0	2.4	2.4
55°	2877.2	1799.1	88.0	66.0	48.9	24.4	4.9	0.0	0.0	0.0	2.4
57.5°	3190.1	1894.5	80.7	56.2	36.7	14.7	2.4	0.0	0.0	0.0	0.0
60°	3451.6	1967.8	73.3	48.9	24.4	7.3	0.0	0.0	0.0	0.0	0.0
62.5°	3691.2	2033.8	56.2	36.7	14.7	4.9	0.0	0.0	0.0	0.0	0.0
65°	3850.1	2048.5	39.1	24.4	9.8	2.4	0.0	0.0	0.0	0.0	0.0
67.5°	3779.2	1921.4	24.4	17.1	4.9	2.4	0.0	0.0	0.0	0.0	0.0
70°	3322.1	1613.4	17.1	9.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	2324.7	1041.4	14.7	7.3	2.4	2.4	0.0	0.0	0.0	0.0	0.0
75°	1227.1	376.5	9.8	4.9	2.4	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	435.1	83.1	4.9	2.4	0.0	2.4	0.0	0.0	0.0	0.0	0.0
80°	95.3	17.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)