

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: P594854

Luminaire Tested: **ISS-PA1F-722-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594854
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-722-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2200K, 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: 6364 lumens
Efficiency: N/A
Efficacy: 67.4 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

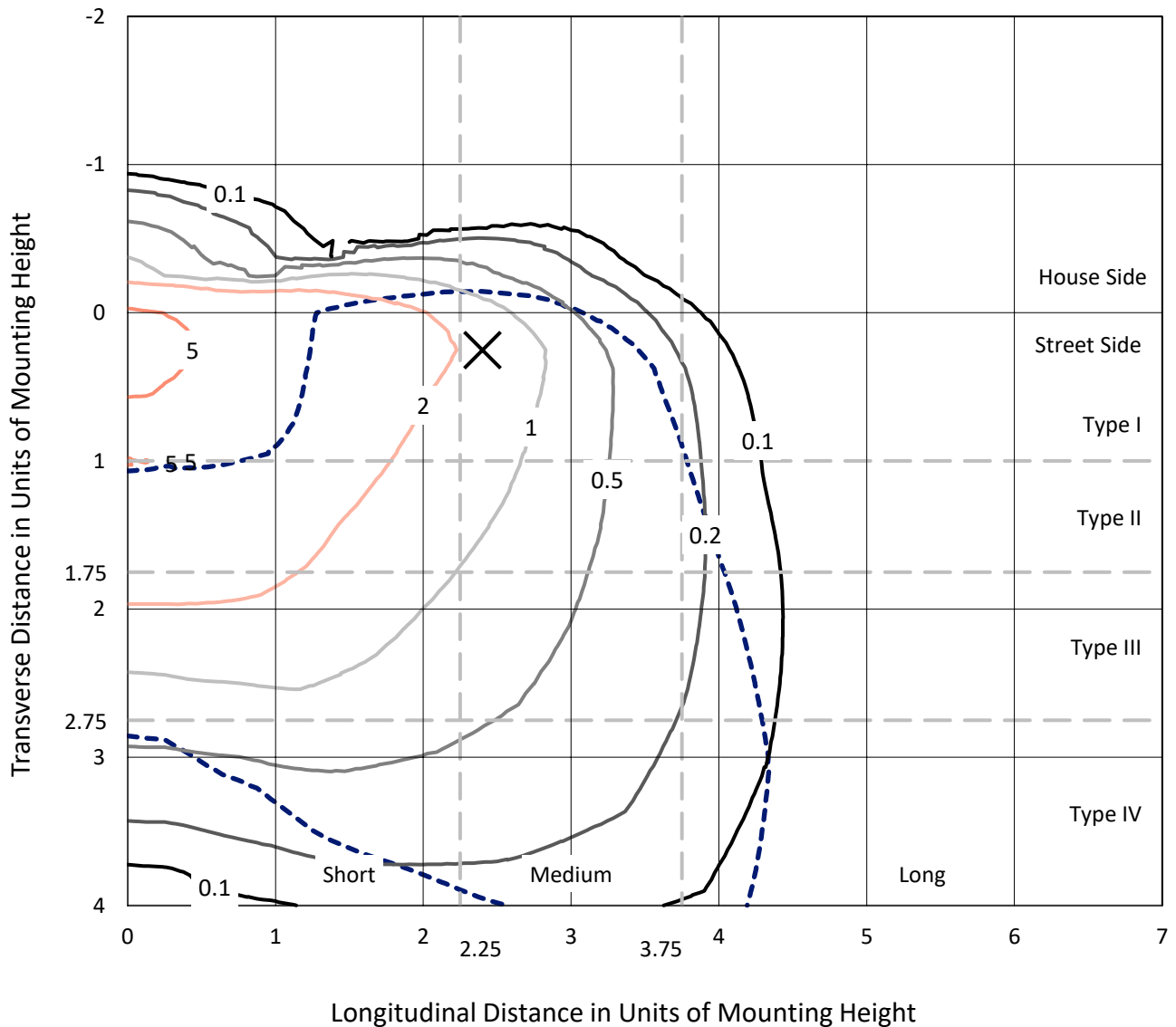
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

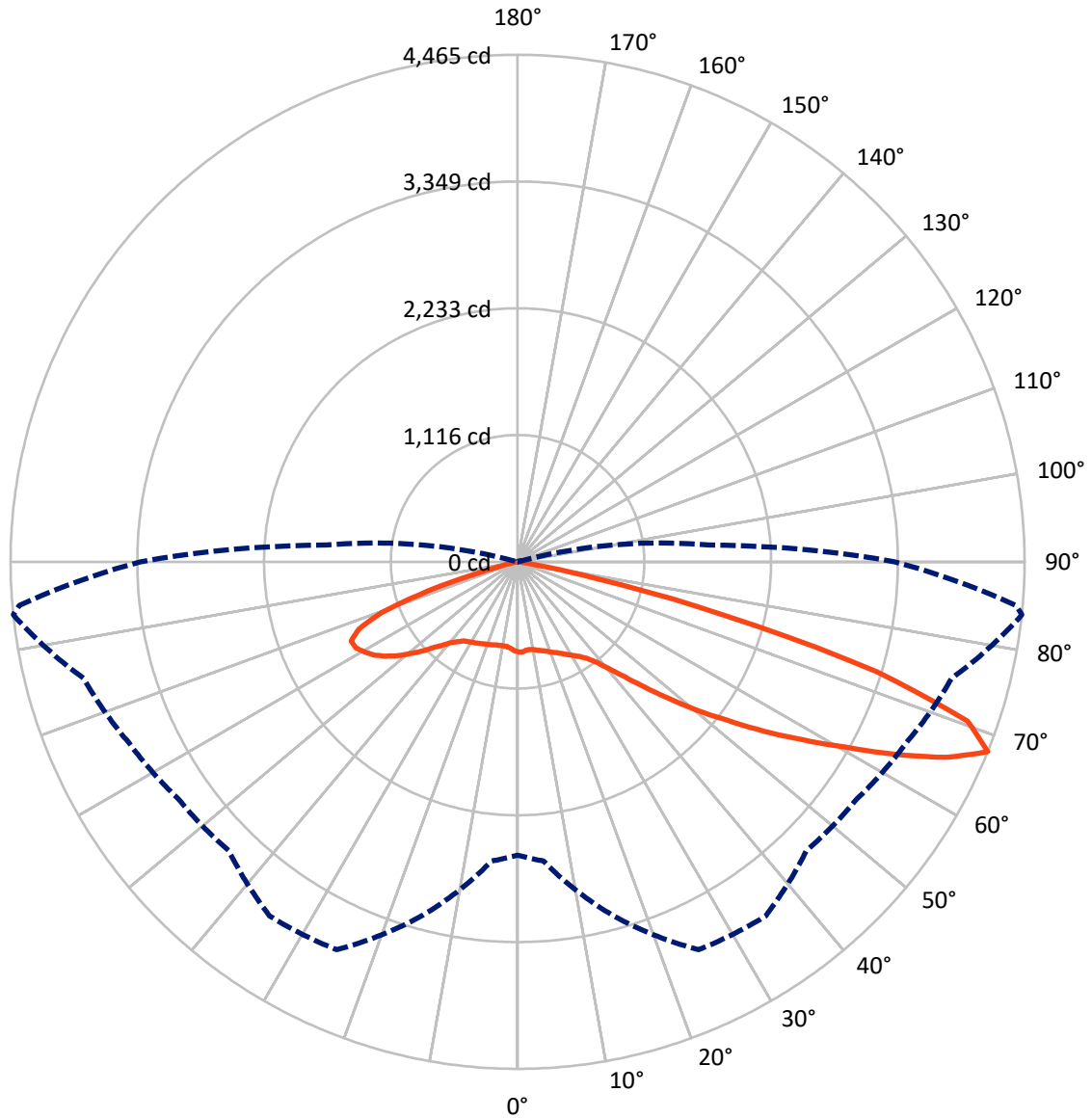
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.5 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	554.1	0.0	554.1
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	5809.9	0.0	5809.9
	% Fixture	91.3	0.0	91.3
Total	Lumens	6364.0	0.0	6364.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	1.1
10°-20°	186.0	2.9
20°-30°	297.8	4.7
30°-40°	428.6	6.7
40°-50°	735.6	11.6
50°-60°	1285.3	20.2
60°-70°	1840.5	28.9
70°-80°	1383.4	21.7
80°-90°	135.8	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°	6364.0	100.0
0°-180°	6364.0	100.0

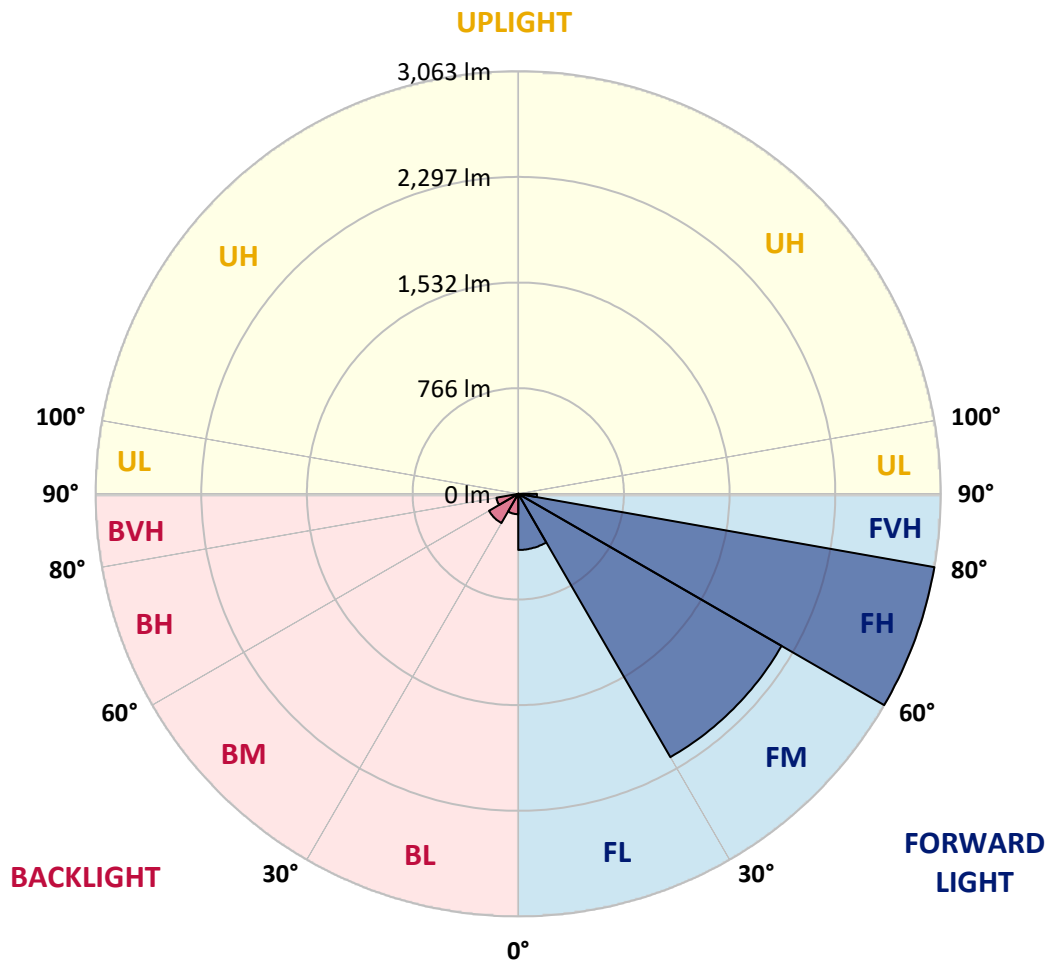


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.9	6.4			
FM (30°-60°)	2204.4	34.6			
FH (60°-80°)	3063.3	48.1			G2/5000
FVH (80°-90°)	135.3	2.1			G2/225
BL (0°-30°)	148.0	2.3	B1/500		
BM (30°-60°)	245.0	3.9	B1/1000		
BH (60°-80°)	160.6	2.5	B1/500		G1/500
BVH (80°-90°)	0.4	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°	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9
2.5°	838.0	842.3	844.4	833.7	833.7	825.1	812.2	807.9	801.5	795.0	792.9
5°	881.0	887.4	885.3	872.4	865.9	848.7	831.6	814.4	797.2	782.1	782.1
7.5°	930.4	932.5	926.1	904.6	891.7	868.1	842.3	823.0	801.5	780.0	775.7
10°	973.4	971.2	962.6	941.1	917.5	887.4	859.5	838.0	812.2	786.4	784.3
12.5°	1003.5	1005.6	994.9	964.8	941.1	906.8	878.8	857.3	827.3	799.3	792.9
15°	1029.2	1035.7	1022.8	992.7	958.3	928.2	906.8	878.8	844.4	812.2	807.9
17.5°	1052.9	1055.0	1044.3	1009.9	977.7	951.9	928.2	902.5	868.1	827.3	823.0
20°	1065.8	1072.2	1065.8	1022.8	992.7	973.4	954.0	928.2	889.6	850.9	846.6
22.5°	1074.4	1080.8	1078.7	1031.4	1005.6	990.6	973.4	949.7	913.2	868.1	863.8
25°	1078.7	1083.0	1087.3	1040.0	1018.5	1012.0	997.0	975.5	941.1	893.9	889.6
27.5°	1085.1	1089.4	1093.7	1050.7	1042.1	1035.7	1031.4	1014.2	973.4	923.9	917.5
30°	1095.8	1102.3	1106.6	1070.1	1070.1	1076.5	1076.5	1052.9	1007.7	956.2	951.9
32.5°	1108.7	1110.9	1119.5	1089.4	1100.1	1115.2	1110.9	1087.3	1040.0	992.7	986.3
35°	1143.1	1143.1	1158.2	1119.5	1132.4	1145.3	1149.6	1132.4	1089.4	1042.1	1040.0
37.5°	1226.9	1226.9	1239.8	1177.5	1175.3	1188.2	1203.3	1203.3	1160.3	1117.3	1113.0
40°	1416.0	1416.0	1416.0	1272.0	1248.4	1263.4	1287.1	1300.0	1263.4	1233.4	1233.4
42.5°	1731.9	1734.0	1701.8	1446.1	1345.1	1370.9	1396.7	1424.6	1405.3	1383.8	1379.5
45°	2058.5	2047.7	2043.4	1701.8	1517.0	1504.1	1536.3	1583.6	1590.1	1577.2	1585.8
47.5°	2281.9	2292.7	2299.1	2019.8	1757.7	1669.6	1699.6	1766.2	1804.9	1802.8	1815.7
50°	2499.0	2505.4	2511.9	2370.0	2075.7	1878.0	1897.3	1987.6	2041.3	2058.5	2067.1
52.5°	2688.0	2670.9	2698.8	2679.5	2413.0	2116.5	2116.5	2219.6	2316.3	2322.8	2320.6
55°	2743.9	2754.7	2838.5	2896.5	2759.0	2408.7	2365.7	2475.3	2578.5	2632.2	2632.2
57.5°	2868.5	2879.3	2980.3	3111.3	3010.4	2696.6	2632.2	2739.6	2851.4	2954.5	2969.5
60°	3031.8	3034.0	3141.4	3341.3	3201.6	2956.6	2902.9	3025.4	3137.1	3313.3	3362.7
62.5°	3119.9	3128.5	3276.8	3538.9	3442.2	3184.4	3171.5	3283.2	3427.2	3736.6	3781.7
65°	2984.6	3040.4	3362.7	3657.1	3637.8	3397.1	3442.2	3532.5	3697.9	4151.3	4194.3
67.5°	2582.8	2645.1	3220.9	3768.9	3807.5	3597.0	3644.2	3775.3	3957.9	4465.0	4404.9
70°	2378.6	2430.2	2877.1	3831.2	3949.3	3820.4	3841.9	3964.4	4018.1	4202.9	4138.4
72.5°	1802.8	1856.5	2434.5	3618.4	4071.8	4054.6	4000.9	3899.9	3581.9	3306.9	3150.0
75°	797.2	859.5	1620.1	2827.7	3768.9	4187.9	3904.2	3339.1	2572.0	1878.0	1740.5
77.5°	352.4	388.9	627.4	1570.7	2832.0	3624.9	3087.7	2226.1	1291.4	698.3	648.9
80°	113.9	118.2	197.7	550.1	1448.2	2400.1	1890.9	1070.1	397.5	163.3	152.6
82.5°	45.1	49.4	94.5	232.1	599.5	954.0	928.2	386.8	116.0	43.0	43.0
85°	12.9	15.0	47.3	122.5	212.7	268.6	328.8	128.9	62.3	12.9	12.9
87.5°	4.3	4.3	17.2	38.7	40.8	27.9	62.3	49.4	38.7	4.3	4.3
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°	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9	792.9
2.5°	788.6	784.3	773.5	764.9	760.6	754.2	745.6	741.3	741.3	739.2	732.7
5°	773.5	767.1	747.8	734.9	724.1	700.5	683.3	661.8	640.3	633.9	640.3
7.5°	767.1	754.2	728.4	702.6	657.5	595.2	554.4	509.2	494.2	474.9	477.0
10°	769.2	754.2	717.7	659.7	571.6	479.2	414.7	354.5	324.5	309.4	311.6
12.5°	775.7	758.5	706.9	601.6	474.9	363.1	264.3	217.0	208.4	208.4	208.4
15°	788.6	762.8	689.7	532.9	371.7	240.7	186.9	182.6	189.1	195.5	197.7
17.5°	801.5	775.7	664.0	462.0	270.7	180.5	174.0	174.0	180.5	186.9	189.1
20°	816.5	788.6	627.4	386.8	193.4	169.7	167.6	165.5	169.7	176.2	178.3
22.5°	840.1	801.5	584.5	298.7	167.6	163.3	159.0	156.9	159.0	165.5	167.6
25°	861.6	818.7	539.3	221.3	156.9	152.6	150.4	148.3	148.3	152.6	154.7
27.5°	887.4	838.0	489.9	165.5	144.0	141.8	139.7	137.5	135.4	139.7	141.8
30°	919.7	855.2	436.2	139.7	131.1	128.9	126.8	124.6	122.5	124.6	126.8
32.5°	960.5	878.8	373.9	126.8	120.3	113.9	111.7	111.7	109.6	109.6	111.7
35°	1014.2	904.6	307.3	118.2	109.6	103.1	96.7	94.5	94.5	94.5	96.7
37.5°	1093.7	951.9	242.8	109.6	101.0	90.2	83.8	77.4	77.4	77.4	77.4
40°	1203.3	1003.5	189.1	103.1	94.5	79.5	70.9	62.3	58.0	55.9	58.0
42.5°	1373.0	1080.8	146.1	94.5	90.2	70.9	58.0	47.3	38.7	36.5	38.7
45°	1560.0	1164.6	116.0	88.1	81.7	60.2	45.1	32.2	23.6	21.5	23.6
47.5°	1796.3	1269.9	98.8	79.5	70.9	49.4	32.2	17.2	10.7	12.9	12.9
50°	2024.1	1373.0	90.2	73.1	62.3	40.8	19.3	8.6	4.3	6.4	6.4
52.5°	2275.5	1482.6	83.8	64.5	53.7	30.1	10.7	2.1	0.0	2.1	2.1
55°	2529.0	1581.5	77.4	58.0	43.0	21.5	4.3	0.0	0.0	0.0	2.1
57.5°	2804.1	1665.3	70.9	49.4	32.2	12.9	2.1	0.0	0.0	0.0	0.0
60°	3034.0	1729.7	64.5	43.0	21.5	6.4	0.0	0.0	0.0	0.0	0.0
62.5°	3244.6	1787.7	49.4	32.2	12.9	4.3	0.0	0.0	0.0	0.0	0.0
65°	3384.2	1800.6	34.4	21.5	8.6	2.1	0.0	0.0	0.0	0.0	0.0
67.5°	3321.9	1688.9	21.5	15.0	4.3	2.1	0.0	0.0	0.0	0.0	0.0
70°	2920.1	1418.2	15.0	8.6	2.1	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	2043.4	915.4	12.9	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0
75°	1078.7	330.9	8.6	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	382.5	73.1	4.3	2.1	0.0	2.1	0.0	0.0	0.0	0.0	0.0
80°	83.8	15.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)