

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: P594857

Luminaire Tested: **ISS-PA1F-727-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
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-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8107 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

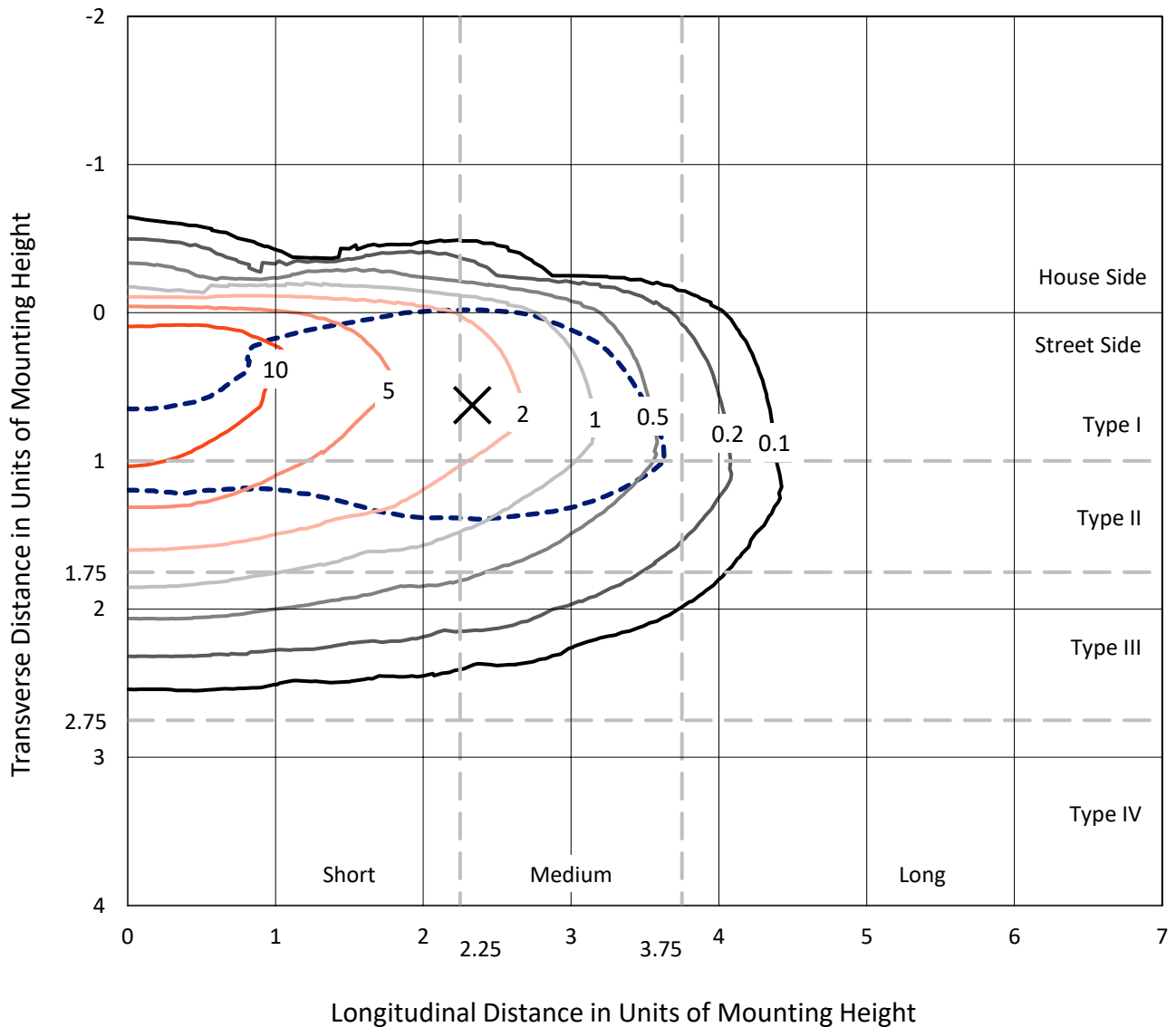
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

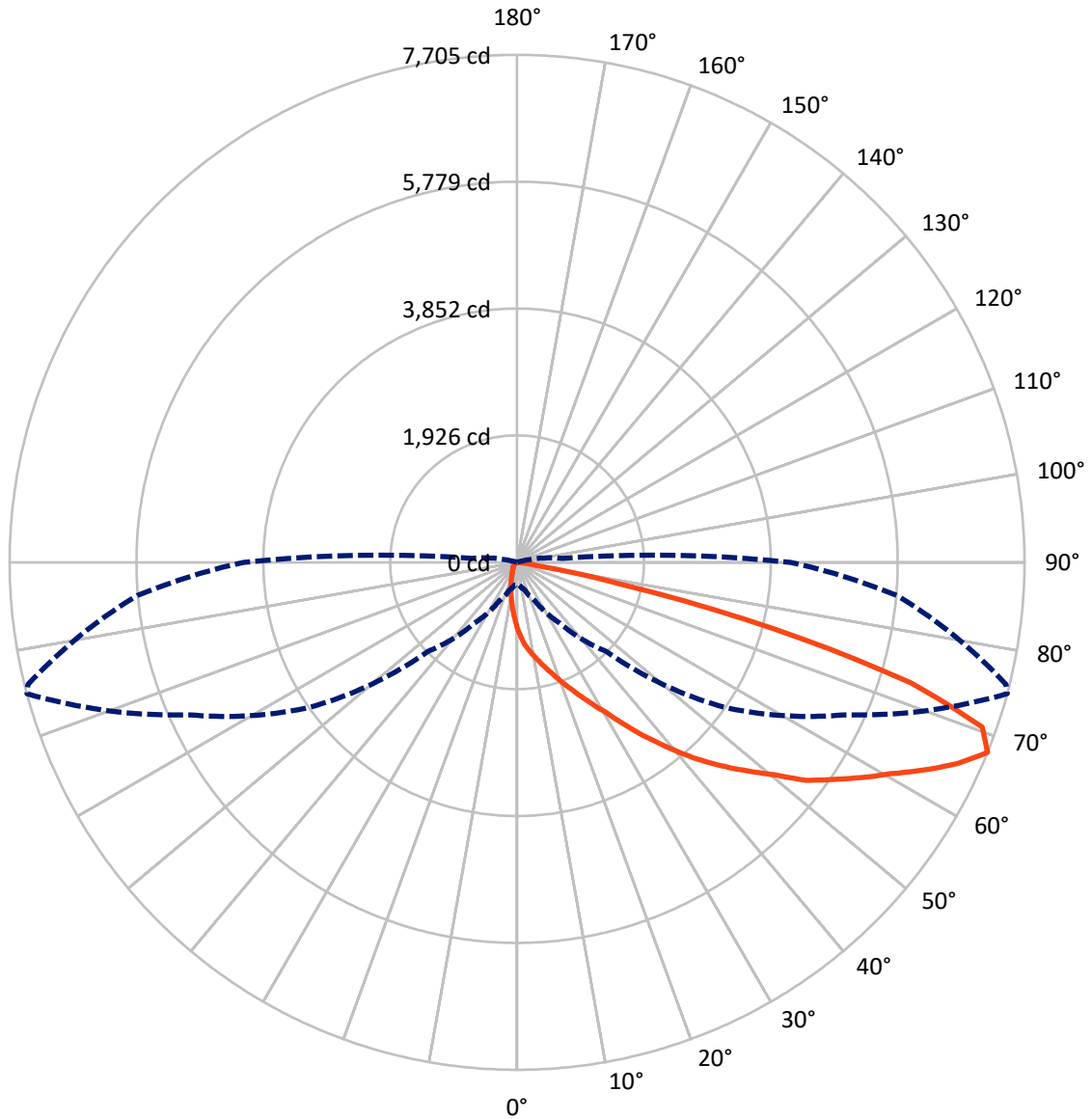
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	408.7	0.0	408.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7698.3	0.0	7698.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	8107.0	0.0	8107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.1
10°-20°	293.3	3.6
20°-30°	589.5	7.3
30°-40°	1115.0	13.8
40°-50°	1668.0	20.6
50°-60°	1925.8	23.8
60°-70°	1707.1	21.1
70°-80°	690.0	8.5
80°-90°	27.5	0.3
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°	8107.0	100.0
0°-180°	8107.0	100.0

Coefficient of Utilization

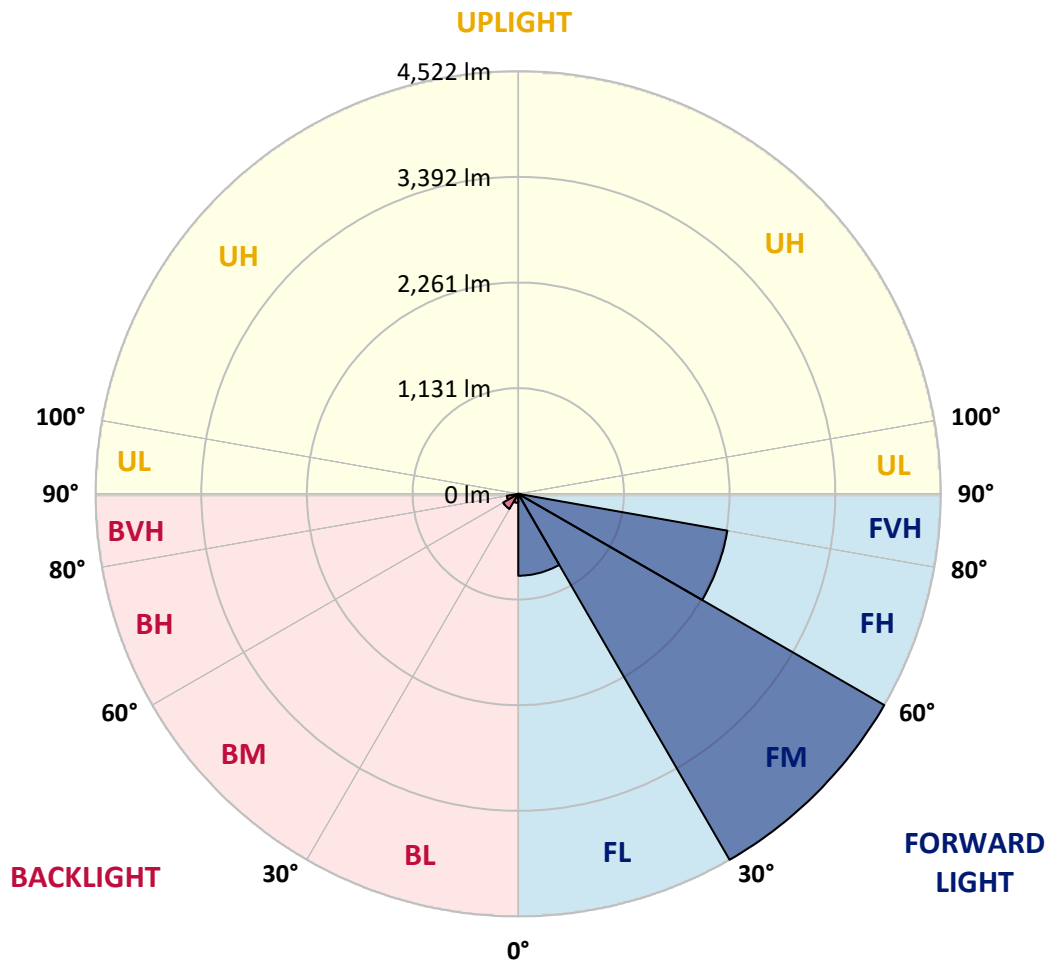


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.5	10.8			
FM (30°-60°)	4522.4	55.8			
FH (60°-80°)	2273.1	28.0			G2/5000
FVH (80°-90°)	26.3	0.3			G1/100
BL (0°-30°)	97.1	1.2	B0/110		
BM (30°-60°)	186.4	2.3	B0/220		
BH (60°-80°)	123.9	1.5	B1/500		G1/500
BVH (80°-90°)	1.2	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5
2.5°	1401.8	1406.6	1396.9	1375.0	1355.5	1309.3	1272.8	1207.1	1136.5	1136.5	1051.3
5°	1567.2	1562.4	1557.5	1540.5	1525.9	1486.9	1438.3	1367.7	1258.2	1248.4	1107.3
7.5°	1647.5	1642.7	1632.9	1625.6	1625.6	1598.9	1552.6	1479.6	1357.9	1348.2	1158.4
10°	1742.5	1732.7	1732.7	1713.3	1708.4	1676.7	1652.4	1589.1	1455.3	1443.1	1216.8
12.5°	1854.4	1844.7	1847.1	1830.1	1822.8	1788.7	1754.6	1693.8	1559.9	1547.8	1284.9
15°	1917.7	1912.8	1927.4	1929.8	1934.7	1905.5	1873.9	1810.6	1676.7	1659.7	1365.2
17.5°	1954.2	1954.2	1971.2	2002.8	2039.4	2022.3	1998.0	1946.9	1796.0	1786.3	1450.4
20°	2024.8	2017.5	2046.7	2075.9	2122.1	2136.7	2129.4	2090.5	1939.6	1910.4	1542.9
22.5°	2141.6	2131.8	2158.6	2195.1	2251.1	2255.9	2260.8	2241.3	2085.6	2056.4	1640.2
25°	2416.6	2392.2	2367.9	2363.0	2384.9	2404.4	2389.8	2404.4	2251.1	2224.3	1744.9
27.5°	2952.0	2910.6	2793.8	2664.8	2574.7	2591.8	2545.5	2572.3	2440.9	2406.8	1842.2
30°	3465.4	3424.1	3329.2	3100.4	2893.5	2801.1	2732.9	2723.2	2635.6	2596.6	1954.2
32.5°	3823.2	3796.4	3733.1	3579.8	3321.9	3085.8	2954.4	2908.1	2896.0	2835.1	2097.8
35°	4066.5	4042.2	3998.4	3874.3	3684.5	3421.6	3195.3	3093.1	3185.6	3112.6	2260.8
37.5°	4212.6	4195.5	4146.8	4061.7	3959.5	3786.7	3494.6	3331.6	3477.6	3409.5	2470.1
40°	4319.6	4275.8	4241.8	4176.1	4142.0	4086.0	3835.3	3579.8	3794.0	3723.4	2677.0
42.5°	4329.4	4309.9	4283.1	4244.2	4249.1	4285.6	4198.0	3867.0	4112.8	4047.1	2896.0
45°	4326.9	4307.5	4288.0	4249.1	4273.4	4409.7	4490.0	4168.7	4424.3	4356.1	3127.2
47.5°	4256.4	4241.8	4246.6	4246.6	4278.3	4463.2	4716.3	4475.4	4735.8	4670.1	3407.0
50°	4008.1	4022.7	4120.1	4171.2	4227.2	4465.6	4874.5	4796.6	5071.6	5025.4	3677.2
52.5°	3222.1	3304.8	3699.1	3969.2	4132.2	4417.0	4976.7	5134.9	5497.5	5426.9	3983.8
55°	2462.8	2467.7	2847.3	3475.2	3944.9	4329.4	5035.1	5363.6	5821.2	5782.2	4253.9
57.5°	1998.0	1995.5	2182.9	2747.5	3458.1	4190.7	5049.7	5531.6	6164.3	6091.3	4565.4
60°	1632.9	1623.2	1735.2	2083.2	2825.4	3864.6	4996.2	5667.8	6517.2	6490.4	4891.5
62.5°	1180.3	1190.0	1338.5	1608.6	2178.1	3263.5	4881.8	5709.2	6943.0	6916.3	5256.6
65°	679.0	708.2	871.2	1158.4	1669.4	2552.8	4555.7	5677.6	7359.2	7356.8	5594.8
67.5°	340.7	343.1	430.7	647.3	1121.9	1910.4	3835.3	5478.0	7704.8	7651.2	5789.5
70°	219.0	223.9	253.1	333.4	620.6	1323.9	2930.0	4913.4	7488.2	7468.7	5504.8
72.5°	167.9	172.8	197.1	219.0	323.7	752.0	1983.4	3818.3	6251.9	6198.4	4292.9
75°	131.4	133.8	158.2	177.7	216.6	352.9	995.3	2380.1	4027.6	3888.9	2443.3
77.5°	104.6	107.1	119.2	141.1	165.5	197.1	294.5	1070.8	1637.8	1462.6	793.4
80°	68.1	70.6	90.0	109.5	141.1	129.0	114.4	309.1	350.4	316.4	141.1
82.5°	38.9	41.4	60.8	87.6	107.1	73.0	65.7	90.0	82.7	80.3	43.8
85°	12.2	12.2	41.4	60.8	48.7	21.9	41.4	31.6	26.8	24.3	14.6
87.5°	2.4	2.4	19.5	21.9	7.3	2.4	4.9	7.3	9.7	12.2	7.3
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°	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5
2.5°	1009.9	961.3	871.2	793.4	717.9	652.2	606.0	564.6	535.4	528.1	515.9
5°	1017.2	922.3	749.5	603.5	477.0	374.8	316.4	277.4	258.0	245.8	245.8
7.5°	1024.5	883.4	635.2	440.5	301.8	228.8	192.3	175.2	167.9	165.5	163.1
10°	1039.1	854.2	537.8	316.4	206.9	172.8	158.2	150.9	146.0	143.6	143.6
12.5°	1063.5	829.9	447.8	233.6	170.4	153.3	143.6	133.8	129.0	126.5	126.5
15°	1095.1	812.8	369.9	187.4	155.8	138.7	126.5	116.8	109.5	107.1	107.1
17.5°	1138.9	800.7	304.2	165.5	143.6	124.1	109.5	99.8	92.5	90.0	90.0
20°	1182.7	800.7	250.7	153.3	131.4	109.5	94.9	82.7	75.4	73.0	73.0
22.5°	1241.1	798.2	209.3	141.1	116.8	94.9	80.3	65.7	60.8	58.4	58.4
25°	1289.8	798.2	180.1	129.0	102.2	82.7	65.7	53.5	48.7	46.2	46.2
27.5°	1348.2	790.9	153.3	114.4	87.6	68.1	53.5	43.8	38.9	36.5	36.5
30°	1399.3	781.2	136.3	102.2	75.4	56.0	43.8	34.1	31.6	31.6	31.6
32.5°	1484.5	773.9	121.7	87.6	63.3	46.2	34.1	26.8	24.3	24.3	24.3
35°	1586.7	773.9	111.9	75.4	53.5	38.9	26.8	21.9	19.5	19.5	19.5
37.5°	1720.6	781.2	99.8	65.7	43.8	31.6	21.9	17.0	14.6	14.6	14.6
40°	1861.7	798.2	90.0	58.4	38.9	24.3	17.0	12.2	9.7	12.2	12.2
42.5°	2029.6	815.3	80.3	51.1	31.6	19.5	12.2	7.3	4.9	7.3	7.3
45°	2195.1	832.3	75.4	43.8	26.8	14.6	7.3	4.9	2.4	4.9	4.9
47.5°	2399.5	873.7	70.6	38.9	21.9	12.2	4.9	2.4	0.0	2.4	2.4
50°	2635.6	919.9	63.3	31.6	17.0	9.7	4.9	0.0	0.0	0.0	0.0
52.5°	2861.9	958.8	56.0	26.8	14.6	7.3	2.4	0.0	0.0	0.0	0.0
55°	3088.2	983.2	48.7	21.9	12.2	7.3	2.4	0.0	0.0	0.0	0.0
57.5°	3331.6	997.8	43.8	19.5	9.7	4.9	2.4	0.0	0.0	0.0	0.0
60°	3601.7	997.8	36.5	17.0	7.3	4.9	2.4	0.0	0.0	0.0	0.0
62.5°	3901.1	968.6	34.1	14.6	7.3	4.9	2.4	0.0	0.0	0.0	0.0
65°	4144.4	863.9	29.2	12.2	7.3	4.9	2.4	0.0	0.0	0.0	0.0
67.5°	4154.1	683.8	26.8	9.7	7.3	4.9	2.4	0.0	0.0	0.0	0.0
70°	3703.9	467.3	21.9	7.3	4.9	4.9	2.4	0.0	0.0	0.0	0.0
72.5°	2771.9	250.7	19.5	7.3	4.9	2.4	2.4	0.0	0.0	0.0	0.0
75°	1494.2	97.3	12.2	7.3	4.9	2.4	2.4	0.0	0.0	0.0	0.0
77.5°	435.6	48.7	7.3	4.9	4.9	2.4	2.4	0.0	0.0	0.0	0.0
80°	80.3	24.3	4.9	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	21.9	9.7	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	9.7	4.9	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.4	2.4	2.4	2.4	2.4	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)