

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: P594625

Luminaire Tested: **ISS-PA1C-730-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1C-730-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4582 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

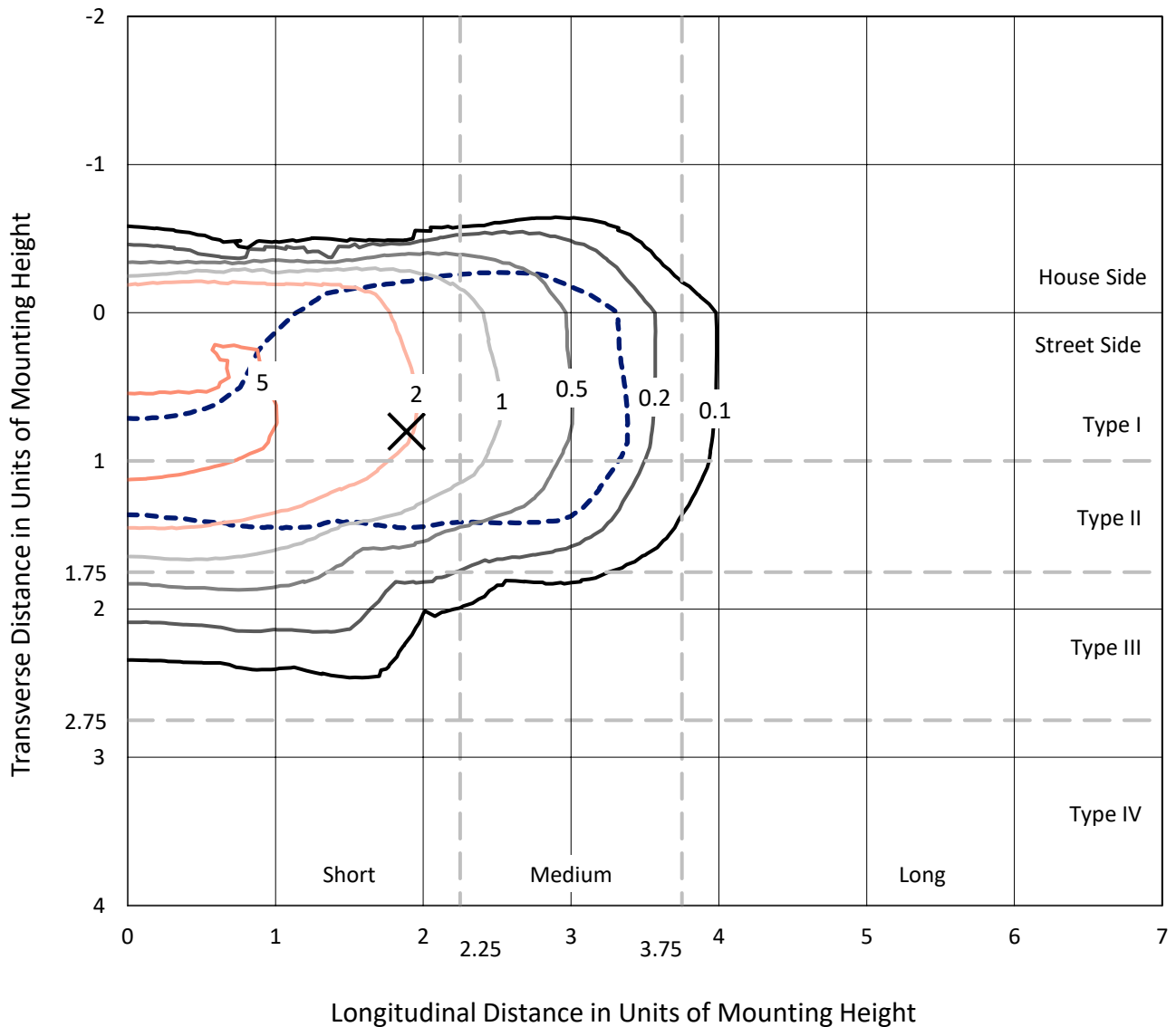
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

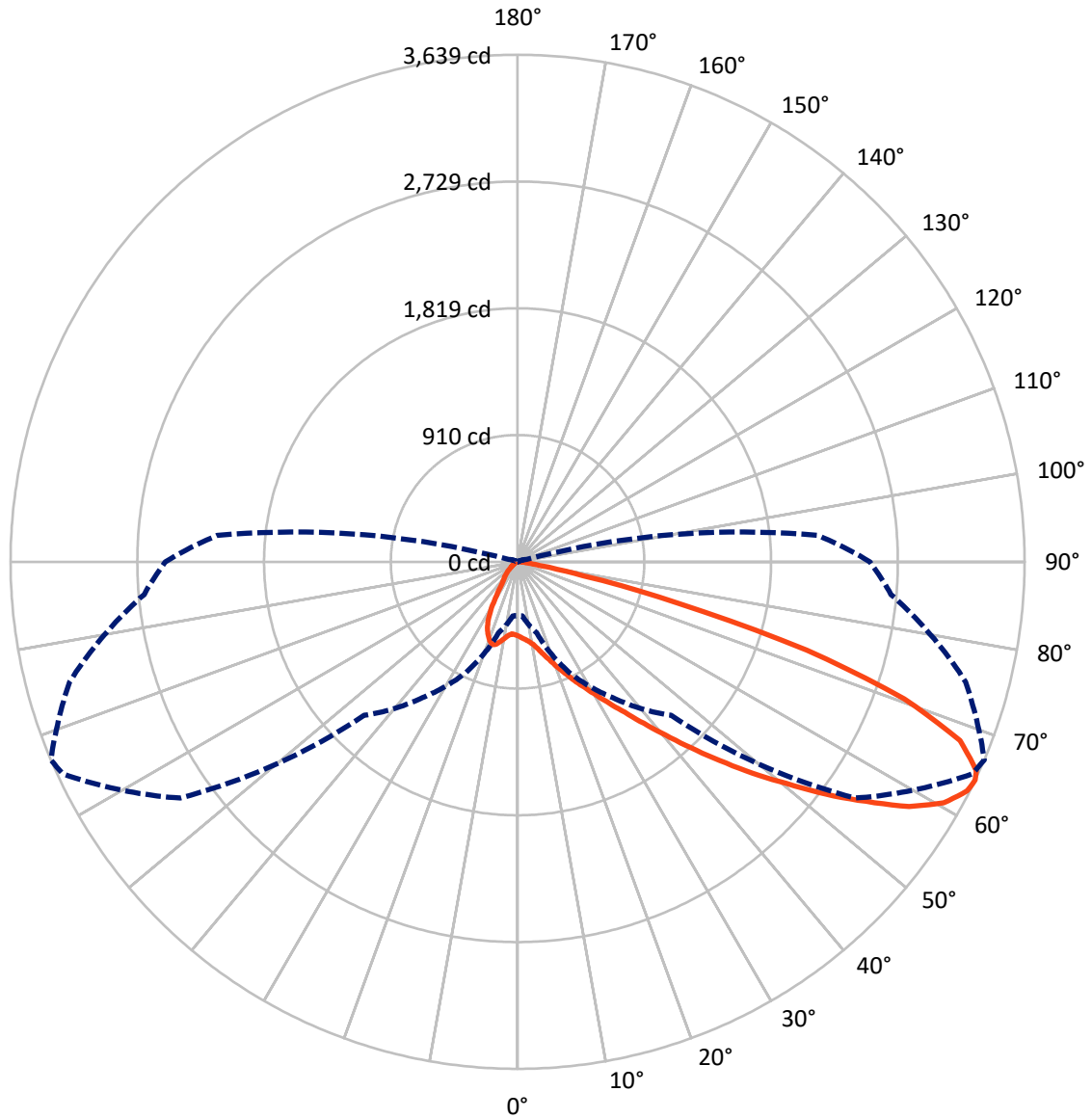
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	586.2	0.0	586.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3995.9	0.0	3995.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	4582.0	0.0	4582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	1.1
10°-20°	149.1	3.3
20°-30°	270.5	5.9
30°-40°	518.1	11.3
40°-50°	954.9	20.8
50°-60°	1233.4	26.9
60°-70°	1010.3	22.0
70°-80°	371.4	8.1
80°-90°	24.0	0.5
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°	4582.0	100.0
0°-180°	4582.0	100.0

Coefficient of Utilization



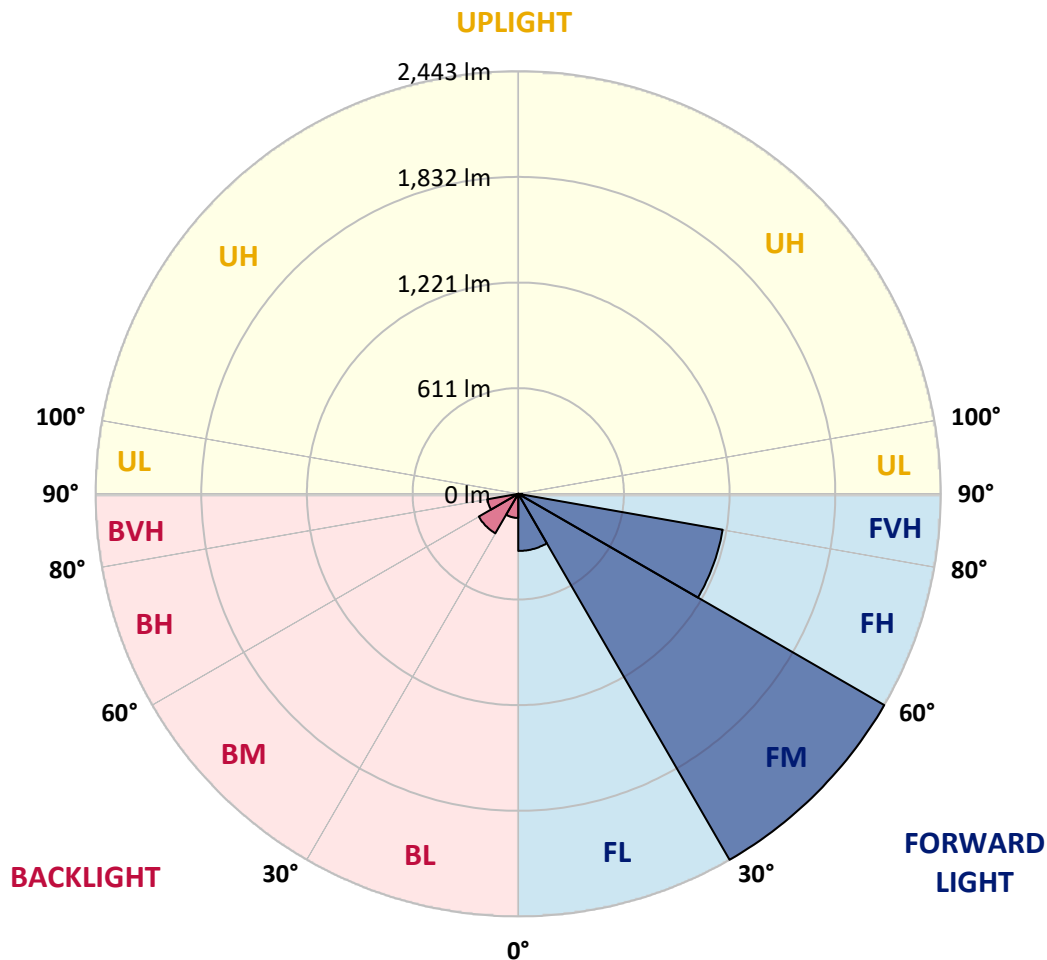
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.4	7.2			
FM (30°-60°)	2442.9	53.3			
FH (60°-80°)	1199.8	26.2			G1/1800
FVH (80°-90°)	22.9	0.5			G1/100
BL (0°-30°)	139.7	3.0	B1/500		
BM (30°-60°)	263.5	5.8	B1/1000		
BH (60°-80°)	181.9	4.0	B1/500		G1/500
BVH (80°-90°)	1.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4
2.5°	551.3	551.3	554.5	552.9	552.9	549.7	545.0	546.6	545.0	543.4	538.7
5°	541.9	543.4	545.0	548.2	554.5	557.6	557.6	559.2	559.2	557.6	551.3
7.5°	537.1	540.3	543.4	546.6	554.5	559.2	567.1	576.5	576.5	578.1	571.8
10°	554.5	557.6	562.3	567.1	574.9	582.8	589.1	600.1	600.1	603.3	601.7
12.5°	590.7	590.7	592.3	595.4	606.4	615.9	626.9	636.4	637.9	639.5	634.8
15°	634.8	634.8	636.4	636.4	642.7	656.8	677.3	686.8	685.2	683.6	674.2
17.5°	685.2	685.2	685.2	686.8	689.9	697.8	721.4	740.3	738.8	737.2	718.3
20°	732.5	735.6	738.8	740.3	743.5	749.8	775.0	797.0	801.8	795.5	762.4
22.5°	786.0	787.6	789.2	793.9	801.8	804.9	830.1	863.2	867.9	860.0	815.9
25°	839.6	842.7	847.4	853.7	861.6	877.4	894.7	938.8	943.5	934.1	874.2
27.5°	957.7	956.1	941.9	930.9	932.5	943.5	967.2	1014.4	1019.1	1009.7	932.5
30°	1159.3	1140.4	1113.6	1064.8	1017.6	1022.3	1055.4	1101.0	1108.9	1096.3	997.1
32.5°	1446.0	1427.1	1360.9	1253.8	1149.9	1115.2	1157.7	1201.9	1211.3	1197.1	1072.7
35°	1724.8	1720.1	1657.1	1527.9	1351.5	1255.4	1266.4	1323.1	1326.3	1309.0	1167.2
37.5°	2069.8	2052.4	1965.8	1820.9	1613.0	1441.3	1409.8	1463.3	1471.2	1450.7	1282.2
40°	2298.2	2291.9	2239.9	2137.5	1913.8	1698.0	1584.6	1636.6	1635.0	1605.1	1414.5
42.5°	2430.5	2433.6	2430.5	2381.6	2254.1	2006.8	1816.2	1819.3	1824.0	1792.5	1567.3
45°	2520.3	2520.3	2525.0	2564.4	2515.5	2375.3	2098.1	2027.2	2033.5	1984.7	1726.4
47.5°	2518.7	2528.1	2553.3	2644.7	2710.9	2718.7	2451.0	2269.8	2266.7	2192.6	1890.2
50°	2348.6	2342.3	2446.2	2651.0	2849.5	3002.3	2784.9	2526.6	2499.8	2408.4	2060.3
52.5°	1965.8	1986.3	2159.6	2460.4	2882.6	3194.4	3073.1	2806.9	2772.3	2622.6	2210.0
55°	1631.9	1653.9	1822.5	2117.0	2703.0	3262.2	3266.9	3104.7	3035.3	2808.5	2364.3
57.5°	1225.5	1268.0	1516.9	1794.1	2309.2	3093.6	3336.2	3389.8	3314.1	2988.1	2490.3
60°	782.9	808.1	1086.9	1428.7	1871.3	2652.6	3322.0	3555.1	3514.2	3151.9	2595.9
62.5°	511.9	526.1	718.3	1075.8	1425.5	1998.9	3153.5	3621.3	3621.3	3262.2	2674.6
64°	385.9	389.1	526.1	874.2	1189.2	1557.8	2955.0	3600.8	3638.6	3328.3	2690.4
65°	305.6	307.2	411.1	726.2	1068.0	1277.5	2781.7	3556.7	3618.2	3353.5	2699.8
67.5°	214.2	218.9	266.2	419.0	765.5	737.2	2061.9	3348.8	3424.4	3361.4	2687.2
70°	185.9	192.2	223.7	274.1	546.6	428.4	1096.3	2854.2	2944.0	3131.4	2501.4
72.5°	141.8	149.6	187.4	231.5	384.3	289.8	423.7	2027.2	2169.0	2421.0	2065.0
75°	102.4	105.5	138.6	189.0	269.4	223.7	182.7	1045.9	1189.2	1428.7	1283.8
77.5°	64.6	69.3	94.5	141.8	241.0	170.1	108.7	381.2	480.4	622.2	560.8
80°	37.8	39.4	56.7	97.7	162.2	126.0	69.3	135.5	163.8	231.5	149.6
82.5°	22.1	23.6	36.2	66.2	105.5	97.7	44.1	69.3	77.2	88.2	31.5
85°	7.9	7.9	25.2	39.4	56.7	48.8	25.2	36.2	39.4	48.8	9.5
87.5°	1.6	1.6	12.6	20.5	20.5	7.9	12.6	15.8	18.9	26.8	3.2
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°	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4
2.5°	537.1	532.4	527.7	521.4	516.7	507.2	502.5	496.2	494.6	491.5	489.9
5°	549.7	541.9	530.8	515.1	505.6	491.5	482.0	472.5	471.0	467.8	466.2
7.5°	567.1	559.2	545.0	527.7	511.9	497.8	486.7	472.5	458.4	447.3	447.3
10°	595.4	586.0	567.1	551.3	532.4	502.5	450.5	403.2	373.3	354.4	348.1
12.5°	630.1	617.5	597.0	578.1	541.9	447.3	367.0	305.6	255.2	231.5	226.8
15°	666.3	655.3	634.8	606.4	497.8	373.3	267.8	173.3	124.4	102.4	105.5
17.5°	705.7	689.9	666.3	609.6	437.9	278.8	143.3	88.2	75.6	72.5	72.5
20°	746.6	726.2	702.5	574.9	360.7	160.7	81.9	66.2	61.4	56.7	58.3
22.5°	790.7	765.5	729.3	523.0	258.3	86.6	63.0	53.6	47.3	45.7	45.7
25°	838.0	801.8	756.1	463.1	149.6	66.2	52.0	42.5	37.8	36.2	34.7
27.5°	888.4	842.7	762.4	384.3	85.1	55.1	41.0	33.1	28.4	26.8	26.8
30°	934.1	883.7	748.2	285.1	64.6	45.7	33.1	25.2	22.1	22.1	22.1
32.5°	995.5	929.3	704.1	178.0	52.0	36.2	25.2	20.5	17.3	17.3	17.3
35°	1075.8	997.1	660.0	94.5	42.5	29.9	20.5	15.8	14.2	14.2	14.2
37.5°	1186.1	1086.9	620.6	59.9	34.7	23.6	15.8	12.6	11.0	11.0	11.0
40°	1299.5	1194.0	565.5	45.7	28.4	18.9	12.6	9.5	7.9	7.9	9.5
42.5°	1441.3	1318.4	502.5	39.4	23.6	15.8	9.5	6.3	4.7	6.3	6.3
45°	1584.6	1449.2	414.3	33.1	20.5	12.6	6.3	3.2	3.2	4.7	4.7
47.5°	1732.7	1587.8	321.3	28.4	17.3	9.5	4.7	1.6	1.6	3.2	3.2
50°	1885.5	1724.8	239.4	25.2	14.2	7.9	3.2	1.6	0.0	1.6	1.6
52.5°	2038.3	1857.1	185.9	22.1	12.6	6.3	1.6	0.0	0.0	0.0	1.6
55°	2180.0	1976.8	148.1	18.9	11.0	4.7	1.6	0.0	0.0	0.0	0.0
57.5°	2299.7	2065.0	118.1	17.3	9.5	3.2	1.6	0.0	0.0	0.0	0.0
60°	2413.2	2134.3	91.4	14.2	7.9	3.2	1.6	0.0	0.0	0.0	0.0
62.5°	2493.5	2161.1	74.0	12.6	6.3	3.2	0.0	0.0	0.0	0.0	0.0
64°	2528.1	2164.3	64.6	11.0	6.3	3.2	1.6	0.0	0.0	0.0	0.0
65°	2548.6	2154.8	59.9	11.0	6.3	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	2553.3	2102.8	45.7	9.5	4.7	1.6	1.6	0.0	0.0	0.0	0.0
70°	2414.7	1921.7	33.1	6.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	2017.8	1468.1	22.1	4.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0
75°	1260.1	634.8	12.6	4.7	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	521.4	192.2	7.9	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
80°	119.7	45.7	3.2	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	28.4	7.9	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	6.3	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	1.6	1.6	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)