

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: P595750

Luminaire Tested: **ISW-PA1D-830-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595750
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: ISW-PA1D-830-U-T2U-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 4667 lumens
Efficiency: N/A
Efficacy: 74.8 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

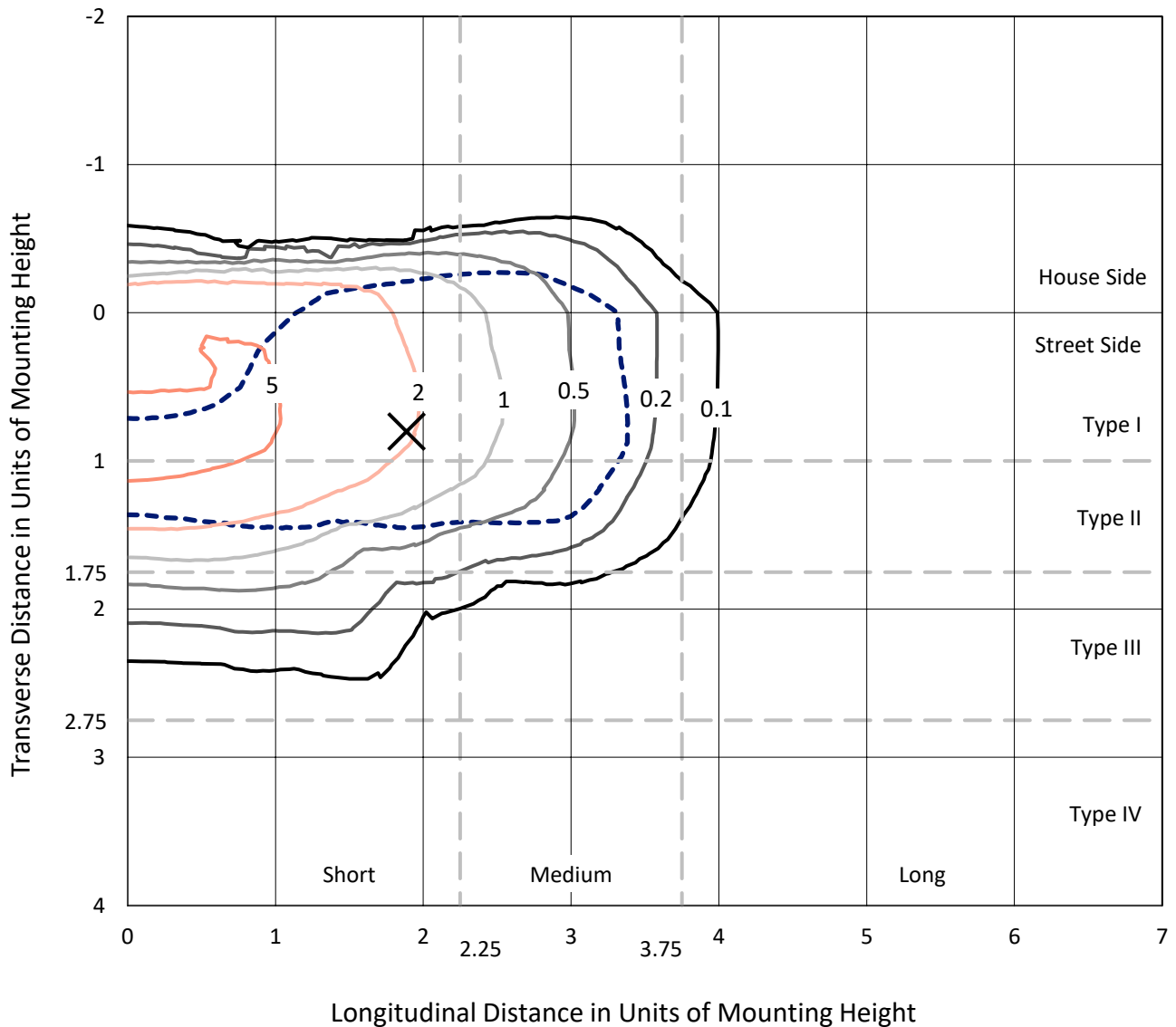
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

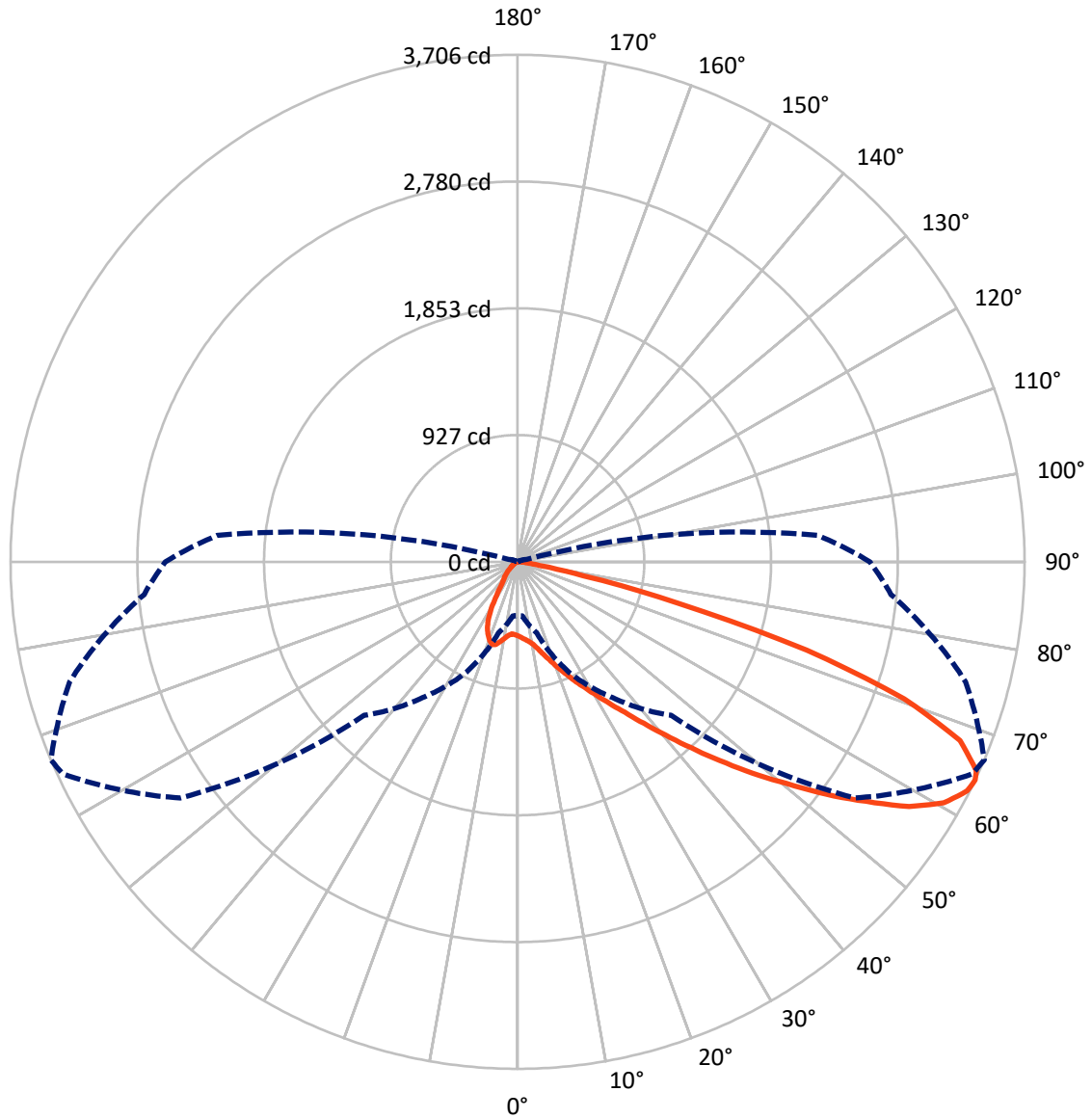
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.2 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	597.0	0.0	597.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4070.0	0.0	4070.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	4667.0	0.0	4667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	1.1
10°-20°	151.8	3.3
20°-30°	275.5	5.9
30°-40°	527.7	11.3
40°-50°	972.6	20.8
50°-60°	1256.2	26.9
60°-70°	1029.0	22.0
70°-80°	378.3	8.1
80°-90°	24.4	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°	4667.0	100.0
0°-180°	4667.0	100.0

Coefficient of Utilization

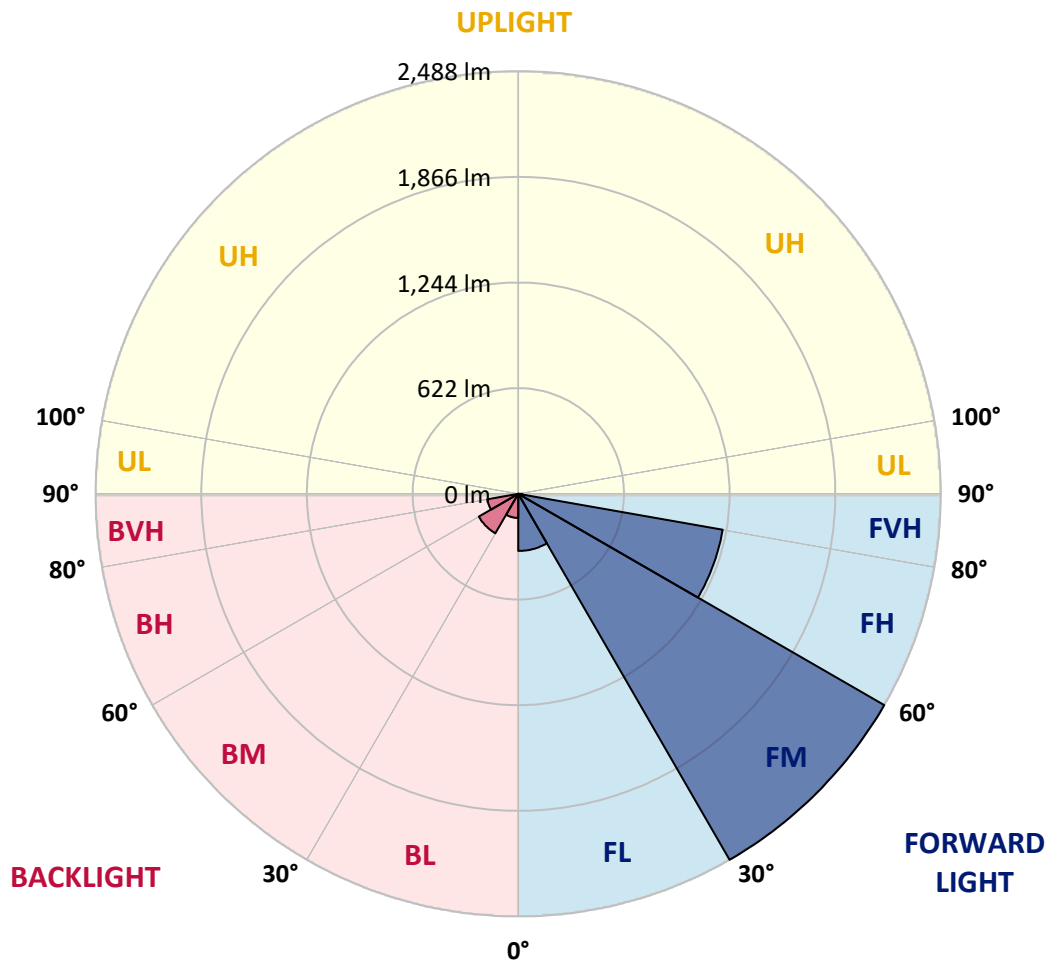


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.5	7.2			
FM (30°-60°)	2488.2	53.3			
FH (60°-80°)	1222.0	26.2			G1/1800
FVH (80°-90°)	23.3	0.5			G1/100
BL (0°-30°)	142.3	3.0	B1/500		
BM (30°-60°)	268.4	5.8	B1/1000		
BH (60°-80°)	185.2	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°	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3
2.5°	561.5	561.5	564.7	563.1	563.1	559.9	555.1	556.7	555.1	553.5	548.7
5°	551.9	553.5	555.1	558.3	564.7	568.0	568.0	569.6	569.6	568.0	561.5
7.5°	547.1	550.3	553.5	556.7	564.7	569.6	577.6	587.2	587.2	588.8	582.4
10°	564.7	568.0	572.8	577.6	585.6	593.6	600.0	611.3	611.3	614.5	612.9
12.5°	601.6	601.6	603.2	606.5	617.7	627.3	638.5	648.2	649.8	651.4	646.6
15°	646.6	646.6	648.2	648.2	654.6	669.0	689.9	699.5	697.9	696.3	686.7
17.5°	697.9	697.9	697.9	699.5	702.7	710.7	734.8	754.1	752.5	750.9	731.6
20°	746.0	749.2	752.5	754.1	757.3	763.7	789.4	811.8	816.6	810.2	776.5
22.5°	800.6	802.2	803.8	808.6	816.6	819.8	845.5	879.2	884.0	876.0	831.1
25°	855.1	858.3	863.2	869.6	877.6	893.6	911.3	956.2	961.0	951.4	890.4
27.5°	975.5	973.9	959.4	948.2	949.8	961.0	985.1	1033.2	1038.0	1028.4	949.8
30°	1180.8	1161.6	1134.3	1084.6	1036.4	1041.2	1074.9	1121.5	1129.5	1116.7	1015.6
32.5°	1472.8	1453.6	1386.2	1277.1	1171.2	1135.9	1179.2	1224.1	1233.8	1219.3	1092.6
35°	1756.8	1752.0	1687.8	1556.3	1376.6	1278.7	1289.9	1347.7	1350.9	1333.2	1188.8
37.5°	2108.2	2090.5	2002.3	1854.7	1642.9	1468.0	1435.9	1490.5	1498.5	1477.6	1306.0
40°	2340.8	2334.4	2281.4	2177.2	1949.3	1729.5	1614.0	1667.0	1665.4	1634.9	1440.7
42.5°	2475.6	2478.8	2475.6	2425.8	2295.9	2044.0	1849.9	1853.1	1857.9	1825.8	1596.4
45°	2567.0	2567.0	2571.8	2611.9	2562.2	2419.4	2137.0	2064.8	2071.3	2021.5	1758.4
47.5°	2565.4	2575.0	2600.7	2693.8	2761.1	2769.2	2496.4	2311.9	2308.7	2233.3	1925.3
50°	2392.1	2385.7	2491.6	2700.2	2902.3	3058.0	2836.6	2573.4	2546.2	2453.1	2098.5
52.5°	2002.3	2023.1	2199.6	2506.1	2936.0	3253.7	3130.2	2859.0	2823.7	2671.3	2251.0
55°	1662.1	1684.6	1856.3	2156.3	2753.1	3322.7	3327.5	3162.2	3091.7	2860.6	2408.2
57.5°	1248.2	1291.5	1545.0	1827.4	2352.0	3151.0	3398.1	3452.6	3375.6	3043.5	2536.5
60°	797.4	823.0	1107.0	1455.2	1906.0	2701.8	3383.6	3621.1	3579.4	3210.4	2644.0
62.5°	521.4	535.9	731.6	1095.8	1452.0	2036.0	3212.0	3688.5	3688.5	3322.7	2724.2
64°	393.1	396.3	535.9	890.4	1211.3	1586.7	3009.8	3667.6	3706.1	3390.1	2740.3
65°	311.3	312.9	418.7	739.6	1087.8	1301.2	2833.3	3622.7	3685.3	3415.7	2749.9
67.5°	218.2	223.0	271.1	426.8	779.7	750.9	2100.1	3410.9	3487.9	3423.8	2737.1
70°	189.3	195.7	227.8	279.2	556.7	436.4	1116.7	2907.1	2998.6	3189.5	2547.8
72.5°	144.4	152.4	190.9	235.8	391.5	295.2	431.6	2064.8	2209.2	2465.9	2103.3
75°	104.3	107.5	141.2	192.5	274.3	227.8	186.1	1065.3	1211.3	1455.2	1307.6
77.5°	65.8	70.6	96.3	144.4	245.5	173.3	110.7	388.3	489.3	633.7	571.2
80°	38.5	40.1	57.8	99.5	165.3	128.4	70.6	138.0	166.9	235.8	152.4
82.5°	22.5	24.1	36.9	67.4	107.5	99.5	44.9	70.6	78.6	89.8	32.1
85°	8.0	8.0	25.7	40.1	57.8	49.7	25.7	36.9	40.1	49.7	9.6
87.5°	1.6	1.6	12.8	20.9	20.9	8.0	12.8	16.0	19.3	27.3	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°	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3
2.5°	547.1	542.3	537.5	531.1	526.2	516.6	511.8	505.4	503.8	500.6	499.0
5°	559.9	551.9	540.7	524.6	515.0	500.6	490.9	481.3	479.7	476.5	474.9
7.5°	577.6	569.6	555.1	537.5	521.4	507.0	495.8	481.3	466.9	455.6	455.6
10°	606.5	596.8	577.6	561.5	542.3	511.8	458.9	410.7	380.2	361.0	354.6
12.5°	641.8	628.9	608.1	588.8	551.9	455.6	373.8	311.3	259.9	235.8	231.0
15°	678.7	667.4	646.6	617.7	507.0	380.2	272.7	176.5	126.7	104.3	107.5
17.5°	718.8	702.7	678.7	620.9	446.0	284.0	146.0	89.8	77.0	73.8	73.8
20°	760.5	739.6	715.6	585.6	367.4	163.6	83.4	67.4	62.6	57.8	59.4
22.5°	805.4	779.7	742.8	532.7	263.1	88.2	64.2	54.5	48.1	46.5	46.5
25°	853.5	816.6	770.1	471.7	152.4	67.4	52.9	43.3	38.5	36.9	35.3
27.5°	904.9	858.3	776.5	391.5	86.6	56.2	41.7	33.7	28.9	27.3	27.3
30°	951.4	900.1	762.1	290.4	65.8	46.5	33.7	25.7	22.5	22.5	22.5
32.5°	1014.0	946.6	717.2	181.3	52.9	36.9	25.7	20.9	17.6	17.6	17.6
35°	1095.8	1015.6	672.2	96.3	43.3	30.5	20.9	16.0	14.4	14.4	14.4
37.5°	1208.1	1107.0	632.1	61.0	35.3	24.1	16.0	12.8	11.2	11.2	11.2
40°	1323.6	1216.1	576.0	46.5	28.9	19.3	12.8	9.6	8.0	8.0	9.6
42.5°	1468.0	1342.9	511.8	40.1	24.1	16.0	9.6	6.4	4.8	6.4	6.4
45°	1614.0	1476.0	422.0	33.7	20.9	12.8	6.4	3.2	3.2	4.8	4.8
47.5°	1764.8	1617.2	327.3	28.9	17.6	9.6	4.8	1.6	1.6	3.2	3.2
50°	1920.4	1756.8	243.9	25.7	14.4	8.0	3.2	1.6	0.0	1.6	1.6
52.5°	2076.1	1891.6	189.3	22.5	12.8	6.4	1.6	0.0	0.0	0.0	1.6
55°	2220.5	2013.5	150.8	19.3	11.2	4.8	1.6	0.0	0.0	0.0	0.0
57.5°	2342.4	2103.3	120.3	17.6	9.6	3.2	1.6	0.0	0.0	0.0	0.0
60°	2457.9	2173.9	93.1	14.4	8.0	3.2	1.6	0.0	0.0	0.0	0.0
62.5°	2539.7	2201.2	75.4	12.8	6.4	3.2	0.0	0.0	0.0	0.0	0.0
64°	2575.0	2204.4	65.8	11.2	6.4	3.2	1.6	0.0	0.0	0.0	0.0
65°	2595.9	2194.8	61.0	11.2	6.4	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	2600.7	2141.9	46.5	9.6	4.8	1.6	1.6	0.0	0.0	0.0	0.0
70°	2459.5	1957.4	33.7	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	2055.2	1495.3	22.5	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
75°	1283.5	646.6	12.8	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	531.1	195.7	8.0	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
80°	121.9	46.5	3.2	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	28.9	8.0	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	6.4	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)