

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: P594002

Luminaire Tested: **ISC-PA1A-827-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594002  
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: ISC-PA1A-827-U-T2R-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 2700K, 350mA 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: 2605 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

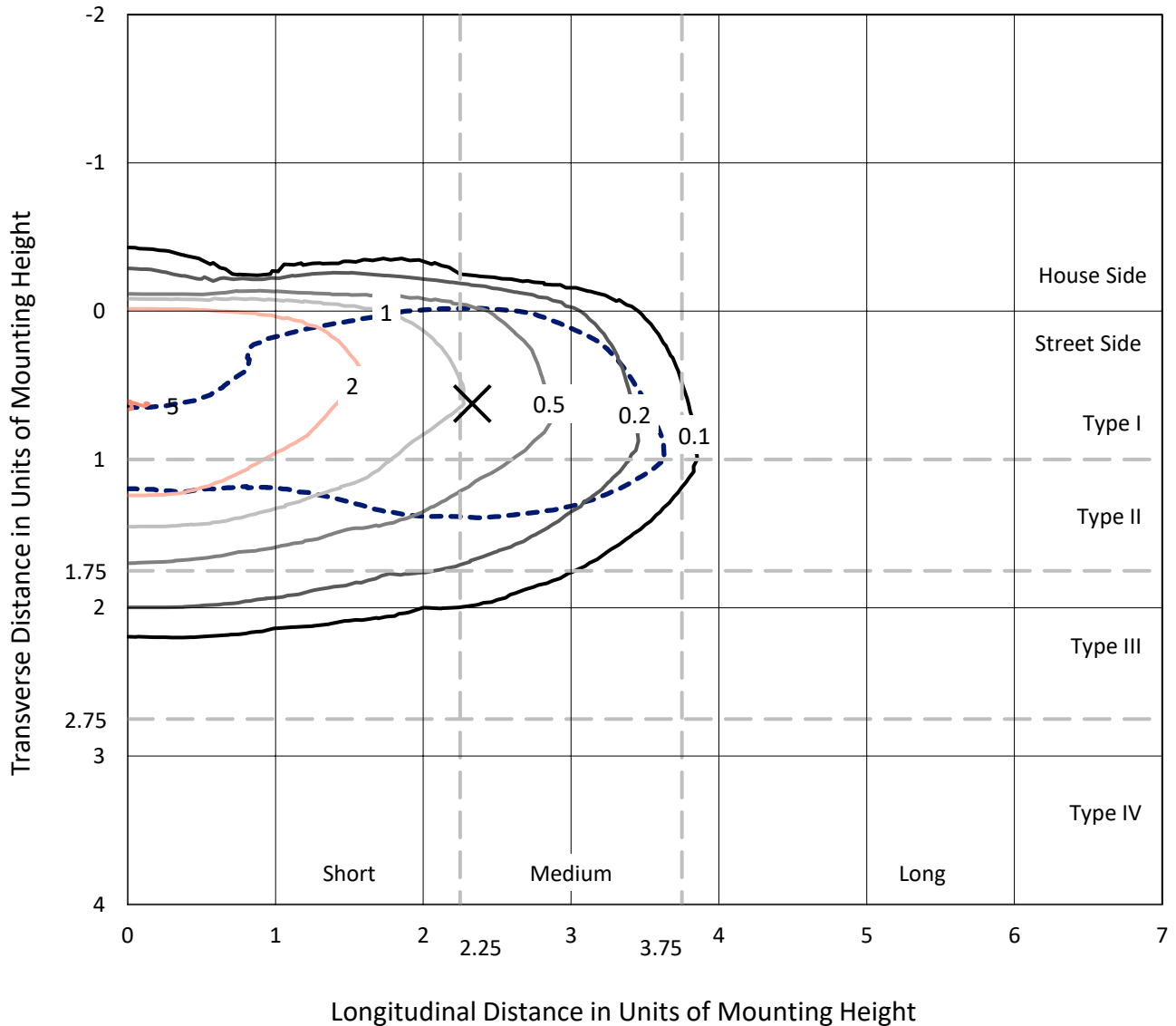
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

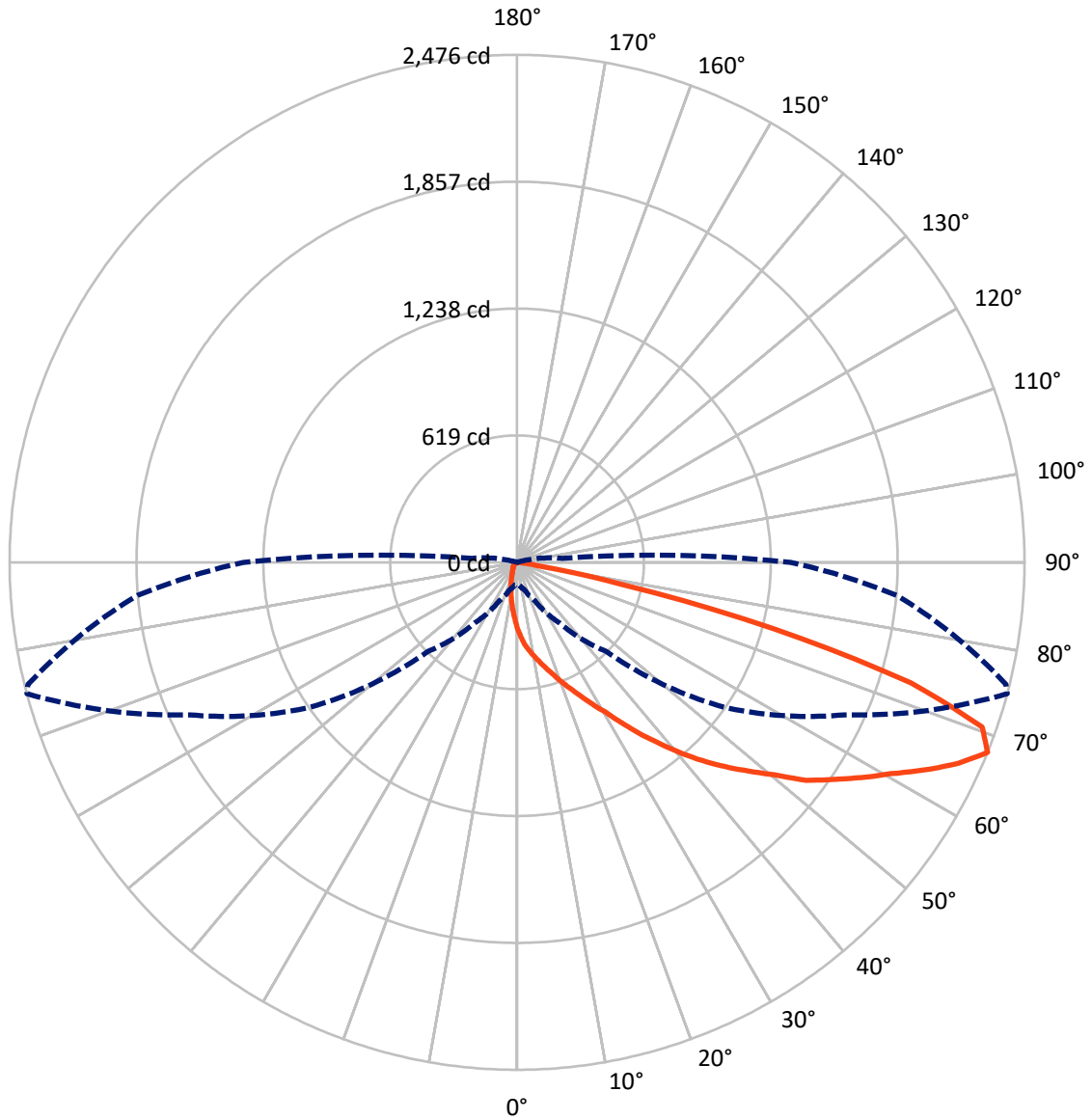
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.1 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
<b>House Side</b>	Lumens	131.3	0.0	131.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	2473.7	0.0	2473.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	2605.0	0.0	2605.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.2	1.1
10°-20°	94.2	3.6
20°-30°	189.4	7.3
30°-40°	358.3	13.8
40°-50°	536.0	20.6
50°-60°	618.8	23.8
60°-70°	548.5	21.1
70°-80°	221.7	8.5
80°-90°	8.8	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°	2605.0	100.0
0°-180°	2605.0	100.0

**Coefficient of Utilization**



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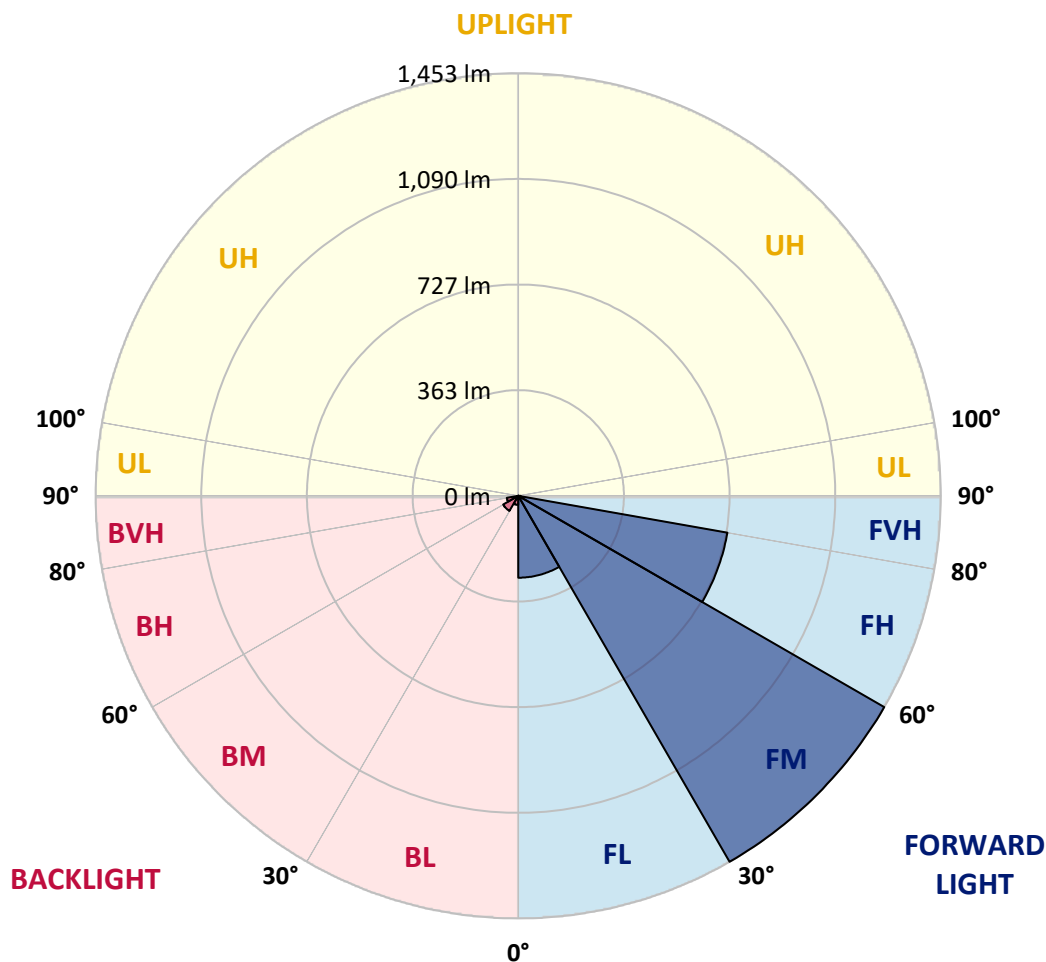
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.6	10.8			
FM (30°-60°)	1453.2	55.8			
FH (60°-80°)	730.4	28.0			G1/1800
FVH (80°-90°)	8.5	0.3			G0/10
BL (0°-30°)	31.2	1.2	B0/110		
BM (30°-60°)	59.9	2.3	B0/220		
BH (60°-80°)	39.8	1.5	B0/110		G0/110
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: B0-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7
2.5°	450.4	452.0	448.9	441.8	435.6	420.7	409.0	387.9	365.2	365.2	337.8
5°	503.6	502.0	500.5	495.0	490.3	477.8	462.2	439.5	404.3	401.2	355.8
7.5°	529.4	527.8	524.7	522.4	522.4	513.8	498.9	475.4	436.3	433.2	372.2
10°	559.9	556.8	556.8	550.5	549.0	538.8	531.0	510.6	467.6	463.7	391.0
12.5°	595.9	592.7	593.5	588.0	585.7	574.8	563.8	544.3	501.2	497.3	412.9
15°	616.2	614.6	619.3	620.1	621.7	612.3	602.1	581.8	538.8	533.3	438.7
17.5°	627.9	627.9	633.4	643.6	655.3	649.8	642.0	625.6	577.1	574.0	466.1
20°	650.6	648.3	657.6	667.0	681.9	686.6	684.2	671.7	623.2	613.9	495.8
22.5°	688.1	685.0	693.6	705.3	723.3	724.9	726.5	720.2	670.2	660.8	527.1
25°	776.5	768.7	760.9	759.3	766.3	772.6	767.9	772.6	723.3	714.7	560.7
27.5°	948.5	935.2	897.7	856.3	827.3	832.8	818.0	826.6	784.3	773.4	592.0
30°	1113.5	1100.2	1069.7	996.2	929.8	900.1	878.2	875.0	846.9	834.4	627.9
32.5°	1228.5	1219.9	1199.6	1150.3	1067.4	991.6	949.3	934.5	930.6	911.0	674.1
35°	1306.7	1298.9	1284.8	1244.9	1183.9	1099.5	1026.7	993.9	1023.6	1000.2	726.5
37.5°	1353.6	1348.1	1332.5	1305.1	1272.3	1216.8	1122.9	1070.5	1117.5	1095.6	793.7
40°	1388.0	1373.9	1363.0	1341.9	1330.9	1312.9	1232.4	1150.3	1219.1	1196.4	860.2
42.5°	1391.1	1384.9	1376.3	1363.8	1365.3	1377.1	1348.9	1242.6	1321.5	1300.4	930.6
45°	1390.4	1384.1	1377.9	1365.3	1373.2	1416.9	1442.8	1339.5	1421.6	1399.7	1004.8
47.5°	1367.7	1363.0	1364.6	1364.6	1374.7	1434.2	1515.5	1438.1	1521.7	1500.6	1094.8
50°	1287.9	1292.6	1323.9	1340.3	1358.3	1434.9	1566.3	1541.3	1629.6	1614.8	1181.6
52.5°	1035.3	1061.9	1188.6	1275.4	1327.8	1419.3	1599.2	1650.0	1766.5	1743.8	1280.1
55°	791.4	792.9	914.9	1116.7	1267.6	1391.1	1617.9	1723.5	1870.5	1858.0	1366.9
57.5°	642.0	641.2	701.4	882.9	1111.2	1346.6	1622.6	1777.4	1980.8	1957.3	1467.0
60°	524.7	521.6	557.6	669.4	907.9	1241.8	1605.4	1821.2	2094.1	2085.5	1571.8
62.5°	379.3	382.4	430.1	516.9	699.9	1048.6	1568.7	1834.5	2231.0	2222.4	1689.1
65°	218.2	227.6	279.9	372.2	536.4	820.3	1463.9	1824.4	2364.7	2363.9	1797.8
67.5°	109.5	110.3	138.4	208.0	360.5	613.9	1232.4	1760.2	2475.8	2458.5	1860.3
70°	70.4	71.9	81.3	107.1	199.4	425.4	941.5	1578.8	2406.2	2399.9	1768.8
72.5°	54.0	55.5	63.3	70.4	104.0	241.6	637.3	1226.9	2008.9	1991.7	1379.4
75°	42.2	43.0	50.8	57.1	69.6	113.4	319.8	764.8	1294.2	1249.6	785.1
77.5°	33.6	34.4	38.3	45.4	53.2	63.3	94.6	344.1	526.3	470.0	254.9
80°	21.9	22.7	28.9	35.2	45.4	41.4	36.8	99.3	112.6	101.7	45.4
82.5°	12.5	13.3	19.5	28.2	34.4	23.5	21.1	28.9	26.6	25.8	14.1
85°	3.9	3.9	13.3	19.5	15.6	7.0	13.3	10.2	8.6	7.8	4.7
87.5°	0.8	0.8	6.3	7.0	2.3	0.8	1.6	2.3	3.1	3.9	2.3
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°	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7
2.5°	324.5	308.9	279.9	254.9	230.7	209.6	194.7	181.4	172.0	169.7	165.8
5°	326.9	296.4	240.9	193.9	153.3	120.4	101.7	89.1	82.9	79.0	79.0
7.5°	329.2	283.9	204.1	141.5	97.0	73.5	61.8	56.3	54.0	53.2	52.4
10°	333.9	274.5	172.8	101.7	66.5	55.5	50.8	48.5	46.9	46.1	46.1
12.5°	341.7	266.7	143.9	75.1	54.7	49.3	46.1	43.0	41.4	40.7	40.7
15°	351.9	261.2	118.9	60.2	50.0	44.6	40.7	37.5	35.2	34.4	34.4
17.5°	366.0	257.3	97.7	53.2	46.1	39.9	35.2	32.1	29.7	28.9	28.9
20°	380.0	257.3	80.5	49.3	42.2	35.2	30.5	26.6	24.2	23.5	23.5
22.5°	398.8	256.5	67.3	45.4	37.5	30.5	25.8	21.1	19.5	18.8	18.8
25°	414.4	256.5	57.9	41.4	32.8	26.6	21.1	17.2	15.6	14.9	14.9
27.5°	433.2	254.1	49.3	36.8	28.2	21.9	17.2	14.1	12.5	11.7	11.7
30°	449.6	251.0	43.8	32.8	24.2	18.0	14.1	10.9	10.2	10.2	10.2
32.5°	477.0	248.7	39.1	28.2	20.3	14.9	10.9	8.6	7.8	7.8	7.8
35°	509.9	248.7	36.0	24.2	17.2	12.5	8.6	7.0	6.3	6.3	6.3
37.5°	552.9	251.0	32.1	21.1	14.1	10.2	7.0	5.5	4.7	4.7	4.7
40°	598.2	256.5	28.9	18.8	12.5	7.8	5.5	3.9	3.1	3.9	3.9
42.5°	652.2	262.0	25.8	16.4	10.2	6.3	3.9	2.3	1.6	2.3	2.3
45°	705.3	267.4	24.2	14.1	8.6	4.7	2.3	1.6	0.8	1.6	1.6
47.5°	771.0	280.7	22.7	12.5	7.0	3.9	1.6	0.8	0.0	0.8	0.8
50°	846.9	295.6	20.3	10.2	5.5	3.1	1.6	0.0	0.0	0.0	0.0
52.5°	919.6	308.1	18.0	8.6	4.7	2.3	0.8	0.0	0.0	0.0	0.0
55°	992.3	315.9	15.6	7.0	3.9	2.3	0.8	0.0	0.0	0.0	0.0
57.5°	1070.5	320.6	14.1	6.3	3.1	1.6	0.8	0.0	0.0	0.0	0.0
60°	1157.3	320.6	11.7	5.5	2.3	1.6	0.8	0.0	0.0	0.0	0.0
62.5°	1253.5	311.2	10.9	4.7	2.3	1.6	0.8	0.0	0.0	0.0	0.0
65°	1331.7	277.6	9.4	3.9	2.3	1.6	0.8	0.0	0.0	0.0	0.0
67.5°	1334.8	219.7	8.6	3.1	2.3	1.6	0.8	0.0	0.0	0.0	0.0
70°	1190.2	150.1	7.0	2.3	1.6	1.6	0.8	0.0	0.0	0.0	0.0
72.5°	890.7	80.5	6.3	2.3	1.6	0.8	0.8	0.0	0.0	0.0	0.0
75°	480.1	31.3	3.9	2.3	1.6	0.8	0.8	0.0	0.0	0.0	0.0
77.5°	140.0	15.6	2.3	1.6	1.6	0.8	0.8	0.0	0.0	0.0	0.0
80°	25.8	7.8	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	7.0	3.1	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.6	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	0.8	0.8	0.8	0.8	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)