

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: P594443

Luminaire Tested: **ISS-PA1A-727-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594443
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-PA1A-727-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 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: 2964 lumens
Efficiency: N/A
Efficacy: 102.6 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

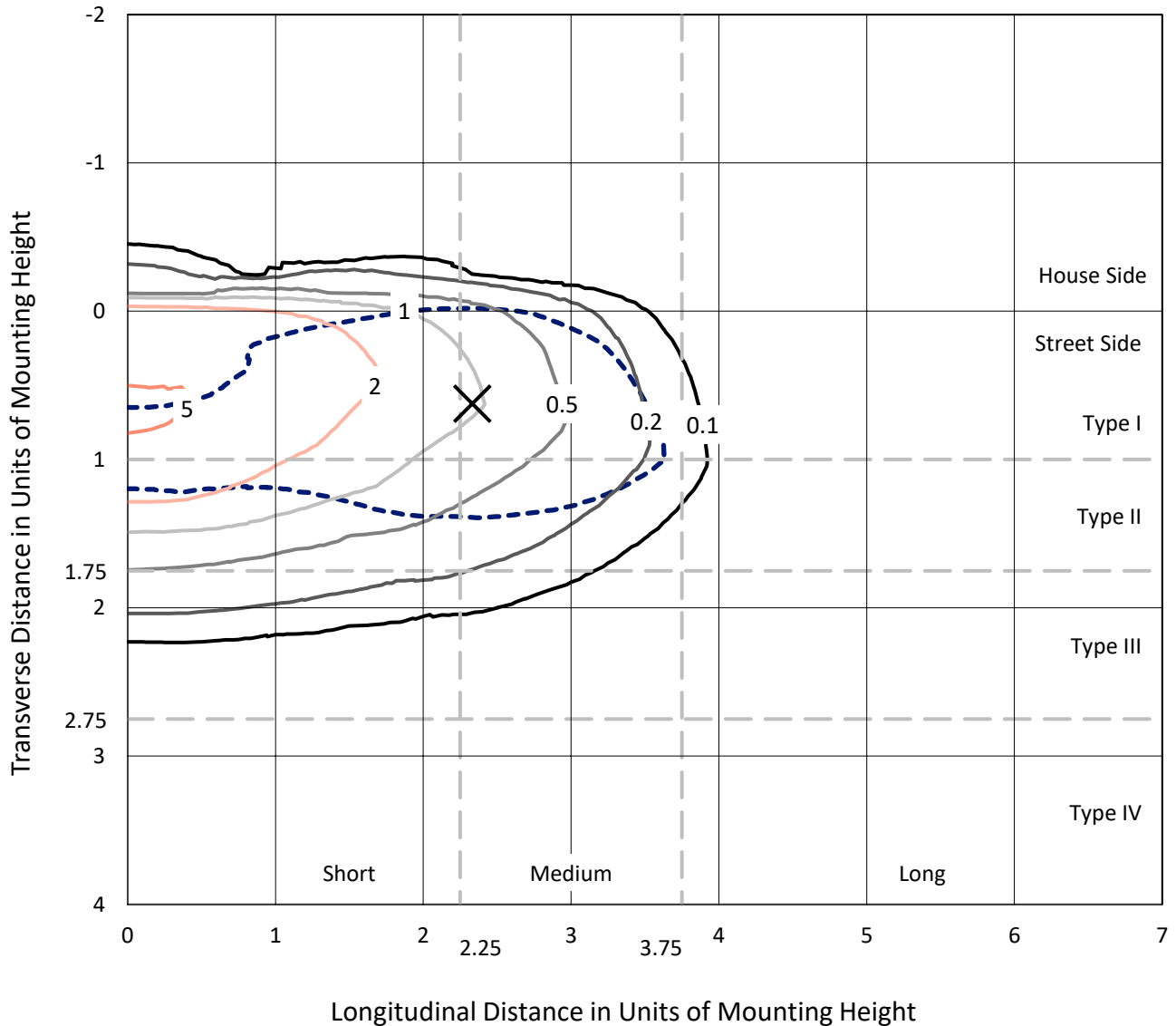




REPORT NUMBER: P594443
 CATALOG NUMBER: ISS-PA1A-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

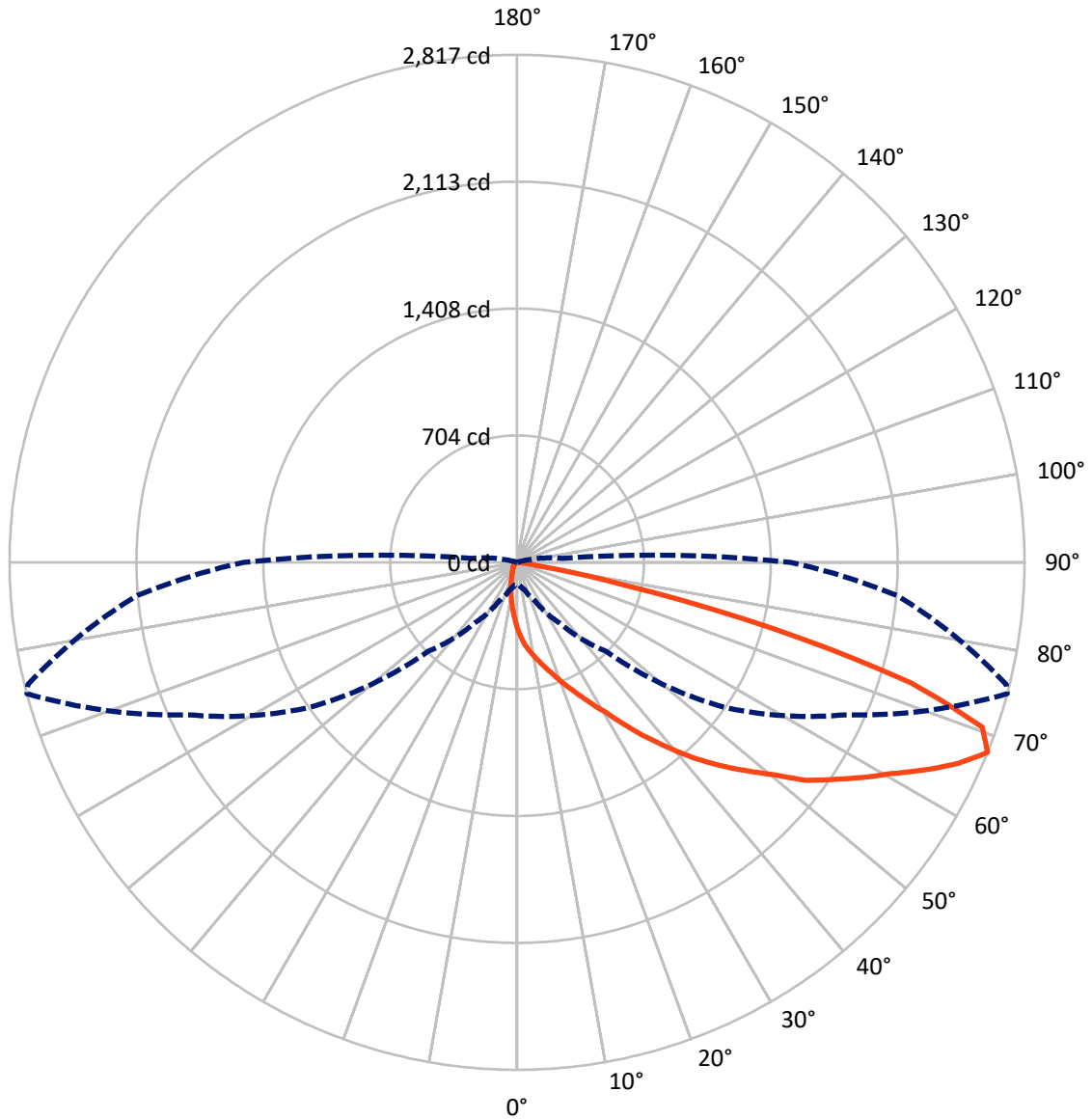
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P594443
CATALOG NUMBER: ISS-PA1A-727-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P594443
 CATALOG NUMBER: ISS-PA1A-727-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	149.4	0.0	149.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2814.6	0.0	2814.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	2964.0	0.0	2964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	1.1
10°-20°	107.2	3.6
20°-30°	215.5	7.3
30°-40°	407.6	13.8
40°-50°	609.8	20.6
50°-60°	704.1	23.8
60°-70°	624.1	21.1
70°-80°	252.3	8.5
80°-90°	10.1	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°	2964.0	100.0
0°-180°	2964.0	100.0

Coefficient of Utilization

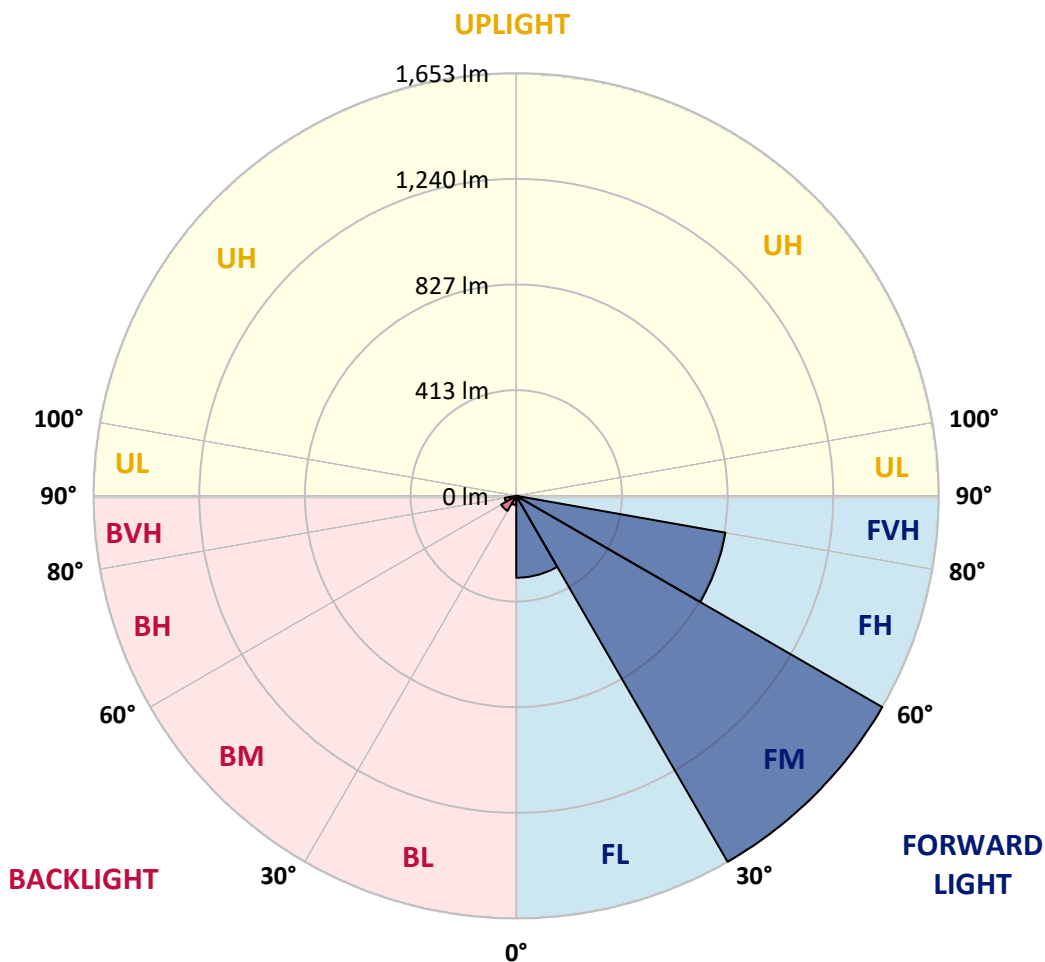


REPORT NUMBER: P594443
 CATALOG NUMBER: ISS-PA1A-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.4	10.8			
FM (30°-60°)	1653.4	55.8			
FH (60°-80°)	831.1	28.0			G1/1800
FVH (80°-90°)	9.6	0.3			G0/10
BL (0°-30°)	35.5	1.2	B0/110		
BM (30°-60°)	68.2	2.3	B0/220		
BH (60°-80°)	45.3	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





REPORT NUMBER: P594443
 CATALOG NUMBER: ISS-PA1A-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4
2.5°	512.5	514.3	510.7	502.7	495.6	478.7	465.3	441.3	415.5	415.5	384.4
5°	573.0	571.2	569.4	563.2	557.9	543.6	525.8	500.0	460.0	456.4	404.8
7.5°	602.4	600.6	597.0	594.4	594.4	584.6	567.7	541.0	496.5	492.9	423.5
10°	637.1	633.5	633.5	626.4	624.6	613.0	604.1	581.0	532.1	527.6	444.9
12.5°	678.0	674.4	675.3	669.1	666.4	654.0	641.5	619.3	570.3	565.9	469.8
15°	701.1	699.3	704.7	705.6	707.3	696.7	685.1	662.0	613.0	606.8	499.1
17.5°	714.5	714.5	720.7	732.3	745.6	739.4	730.5	711.8	656.6	653.1	530.3
20°	740.3	737.6	748.3	759.0	775.9	781.2	778.5	764.3	709.1	698.5	564.1
22.5°	783.0	779.4	789.2	802.6	823.0	824.8	826.6	819.5	762.5	751.8	599.7
25°	883.5	874.6	865.7	863.9	872.0	879.1	873.7	879.1	823.0	813.2	637.9
27.5°	1079.3	1064.1	1021.4	974.3	941.4	947.6	930.7	940.5	892.4	880.0	673.5
30°	1267.0	1251.9	1217.2	1133.5	1057.9	1024.1	999.2	995.6	963.6	949.4	714.5
32.5°	1397.8	1388.0	1364.9	1308.8	1214.5	1128.2	1080.2	1063.2	1058.8	1036.6	767.0
35°	1486.8	1477.9	1461.9	1416.5	1347.1	1251.0	1168.2	1130.9	1164.7	1138.0	826.6
37.5°	1540.2	1533.9	1516.1	1485.0	1447.6	1384.4	1277.7	1218.1	1271.4	1246.5	903.1
40°	1579.3	1563.3	1550.8	1526.8	1514.3	1493.9	1402.2	1308.8	1387.1	1361.3	978.7
42.5°	1582.9	1575.7	1566.0	1551.7	1553.5	1566.8	1534.8	1413.8	1503.7	1479.6	1058.8
45°	1582.0	1574.9	1567.7	1553.5	1562.4	1612.2	1641.6	1524.1	1617.6	1592.6	1143.3
47.5°	1556.2	1550.8	1552.6	1552.6	1564.2	1631.8	1724.3	1636.2	1731.4	1707.4	1245.6
50°	1465.4	1470.8	1506.3	1525.0	1545.5	1632.7	1782.2	1753.7	1854.2	1837.3	1344.4
52.5°	1178.0	1208.3	1352.4	1451.2	1510.8	1614.9	1819.5	1877.4	2009.9	1984.1	1456.5
55°	900.4	902.2	1041.0	1270.6	1442.3	1582.9	1840.9	1961.0	2128.3	2114.0	1555.3
57.5°	730.5	729.6	798.1	1004.5	1264.3	1532.1	1846.2	2022.4	2253.7	2227.0	1669.2
60°	597.0	593.5	634.4	761.6	1033.0	1412.9	1826.7	2072.2	2382.7	2373.0	1788.4
62.5°	431.5	435.1	489.4	588.1	796.3	1193.2	1784.8	2087.3	2538.4	2528.7	1921.9
65°	248.2	258.9	318.5	423.5	610.4	933.3	1665.6	2075.8	2690.6	2689.7	2045.5
67.5°	124.6	125.5	157.5	236.7	410.2	698.5	1402.2	2002.8	2816.9	2797.4	2116.7
70°	80.1	81.9	92.5	121.9	226.9	484.0	1071.3	1796.4	2737.8	2730.6	2012.6
72.5°	61.4	63.2	72.1	80.1	118.3	274.9	725.1	1396.0	2285.8	2266.2	1569.5
75°	48.0	48.9	57.8	65.0	79.2	129.0	363.9	870.2	1472.5	1421.8	893.3
77.5°	38.3	39.1	43.6	51.6	60.5	72.1	107.7	391.5	598.8	534.7	290.1
80°	24.9	25.8	32.9	40.0	51.6	47.2	41.8	113.0	128.1	115.7	51.6
82.5°	14.2	15.1	22.2	32.0	39.1	26.7	24.0	32.9	30.3	29.4	16.0
85°	4.4	4.4	15.1	22.2	17.8	8.0	15.1	11.6	9.8	8.9	5.3
87.5°	0.9	0.9	7.1	8.0	2.7	0.9	1.8	2.7	3.6	4.4	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594443
 CATALOG NUMBER: ISS-PA1A-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4
2.5°	369.2	351.5	318.5	290.1	262.5	238.5	221.5	206.4	195.7	193.1	188.6
5°	371.9	337.2	274.0	220.7	174.4	137.0	115.7	101.4	94.3	89.9	89.9
7.5°	374.6	323.0	232.2	161.0	110.3	83.6	70.3	64.1	61.4	60.5	59.6
10°	379.9	312.3	196.6	115.7	75.6	63.2	57.8	55.2	53.4	52.5	52.5
12.5°	388.8	303.4	163.7	85.4	62.3	56.1	52.5	48.9	47.2	46.3	46.3
15°	400.4	297.2	135.2	68.5	56.9	50.7	46.3	42.7	40.0	39.1	39.1
17.5°	416.4	292.7	111.2	60.5	52.5	45.4	40.0	36.5	33.8	32.9	32.9
20°	432.4	292.7	91.6	56.1	48.0	40.0	34.7	30.3	27.6	26.7	26.7
22.5°	453.8	291.8	76.5	51.6	42.7	34.7	29.4	24.0	22.2	21.4	21.4
25°	471.6	291.8	65.8	47.2	37.4	30.3	24.0	19.6	17.8	16.9	16.9
27.5°	492.9	289.2	56.1	41.8	32.0	24.9	19.6	16.0	14.2	13.3	13.3
30°	511.6	285.6	49.8	37.4	27.6	20.5	16.0	12.5	11.6	11.6	11.6
32.5°	542.7	282.9	44.5	32.0	23.1	16.9	12.5	9.8	8.9	8.9	8.9
35°	580.1	282.9	40.9	27.6	19.6	14.2	9.8	8.0	7.1	7.1	7.1
37.5°	629.1	285.6	36.5	24.0	16.0	11.6	8.0	6.2	5.3	5.3	5.3
40°	680.7	291.8	32.9	21.4	14.2	8.9	6.2	4.4	3.6	4.4	4.4
42.5°	742.0	298.1	29.4	18.7	11.6	7.1	4.4	2.7	1.8	2.7	2.7
45°	802.6	304.3	27.6	16.0	9.8	5.3	2.7	1.8	0.9	1.8	1.8
47.5°	877.3	319.4	25.8	14.2	8.0	4.4	1.8	0.9	0.0	0.9	0.9
50°	963.6	336.3	23.1	11.6	6.2	3.6	1.8	0.0	0.0	0.0	0.0
52.5°	1046.3	350.6	20.5	9.8	5.3	2.7	0.9	0.0	0.0	0.0	0.0
55°	1129.1	359.5	17.8	8.0	4.4	2.7	0.9	0.0	0.0	0.0	0.0
57.5°	1218.1	364.8	16.0	7.1	3.6	1.8	0.9	0.0	0.0	0.0	0.0
60°	1316.8	364.8	13.3	6.2	2.7	1.8	0.9	0.0	0.0	0.0	0.0
62.5°	1426.3	354.1	12.5	5.3	2.7	1.8	0.9	0.0	0.0	0.0	0.0
65°	1515.2	315.9	10.7	4.4	2.7	1.8	0.9	0.0	0.0	0.0	0.0
67.5°	1518.8	250.0	9.8	3.6	2.7	1.8	0.9	0.0	0.0	0.0	0.0
70°	1354.2	170.8	8.0	2.7	1.8	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	1013.4	91.6	7.1	2.7	1.8	0.9	0.9	0.0	0.0	0.0	0.0
75°	546.3	35.6	4.4	2.7	1.8	0.9	0.9	0.0	0.0	0.0	0.0
77.5°	159.3	17.8	2.7	1.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0
80°	29.4	8.9	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	8.0	3.6	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	3.6	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	0.9	0.9	0.9	0.9	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)