

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: P594038

Luminaire Tested: **ISC-PA1B-727-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594038  
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-PA1B-727-U-T2R-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 450mA 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: 3704 lumens  
Efficiency: N/A  
Efficacy: 101.8 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

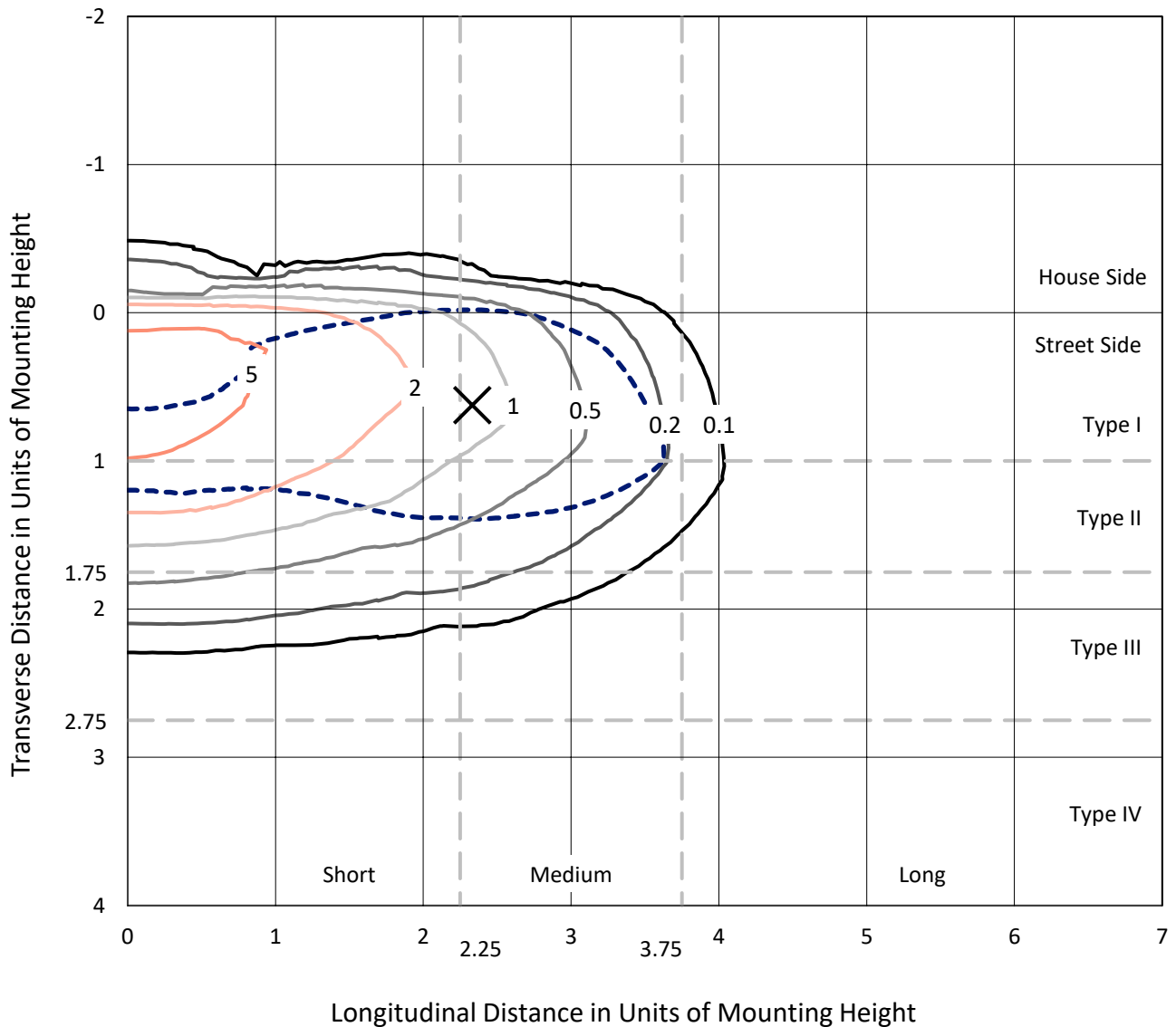
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594038  
 CATALOG NUMBER: ISC-PA1B-727-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

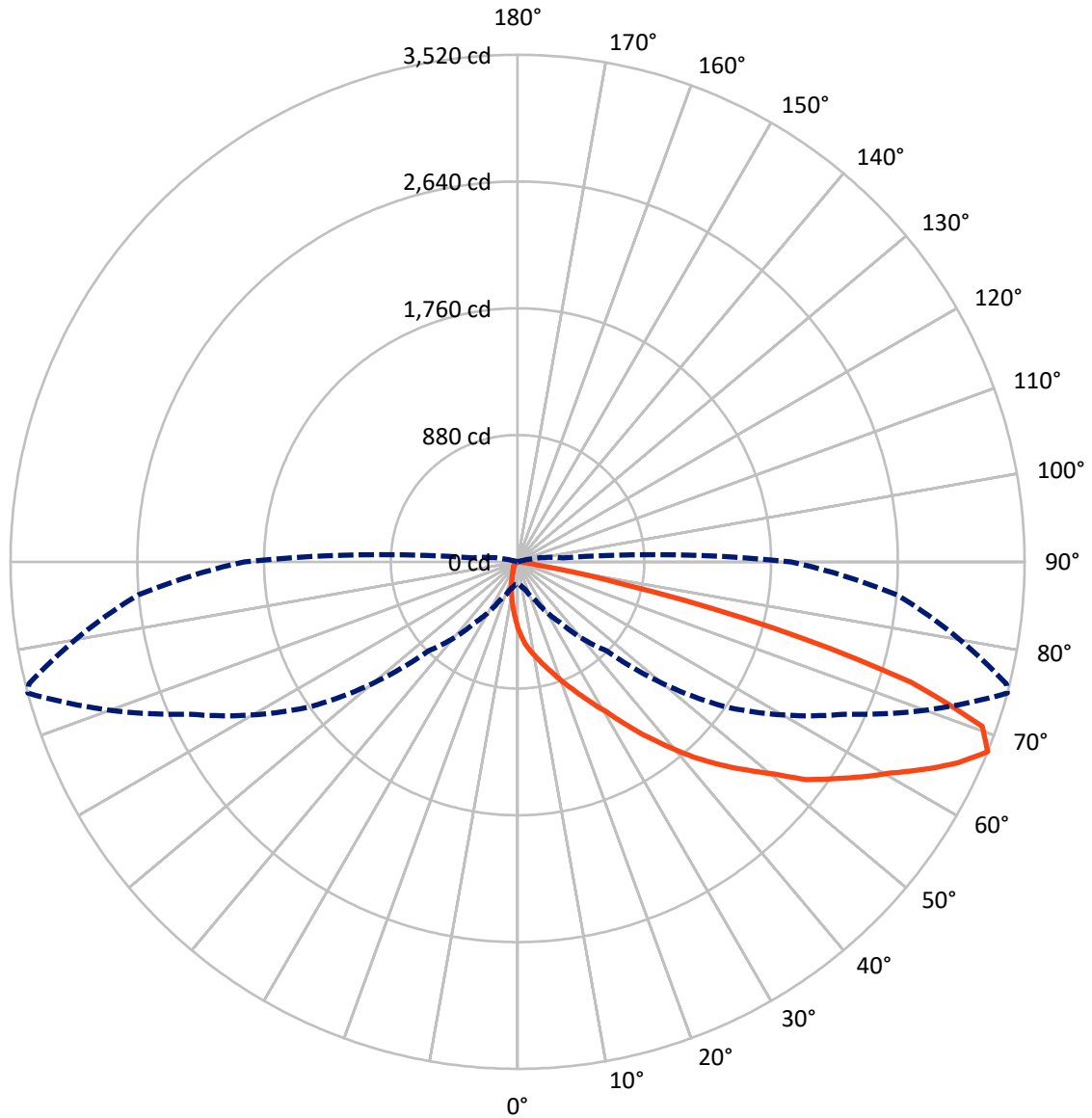
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P594038  
CATALOG NUMBER: ISC-PA1B-727-U-T2R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P594038  
 CATALOG NUMBER: ISC-PA1B-727-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	186.7	0.0	186.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	3517.3	0.0	3517.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	3704.0	0.0	3704.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.5	1.1
10°-20°	134.0	3.6
20°-30°	269.3	7.3
30°-40°	509.4	13.8
40°-50°	762.1	20.6
50°-60°	879.9	23.8
60°-70°	779.9	21.1
70°-80°	315.2	8.5
80°-90°	12.6	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°	3704.0	100.0
0°-180°	3704.0	100.0

**Coefficient of Utilization**

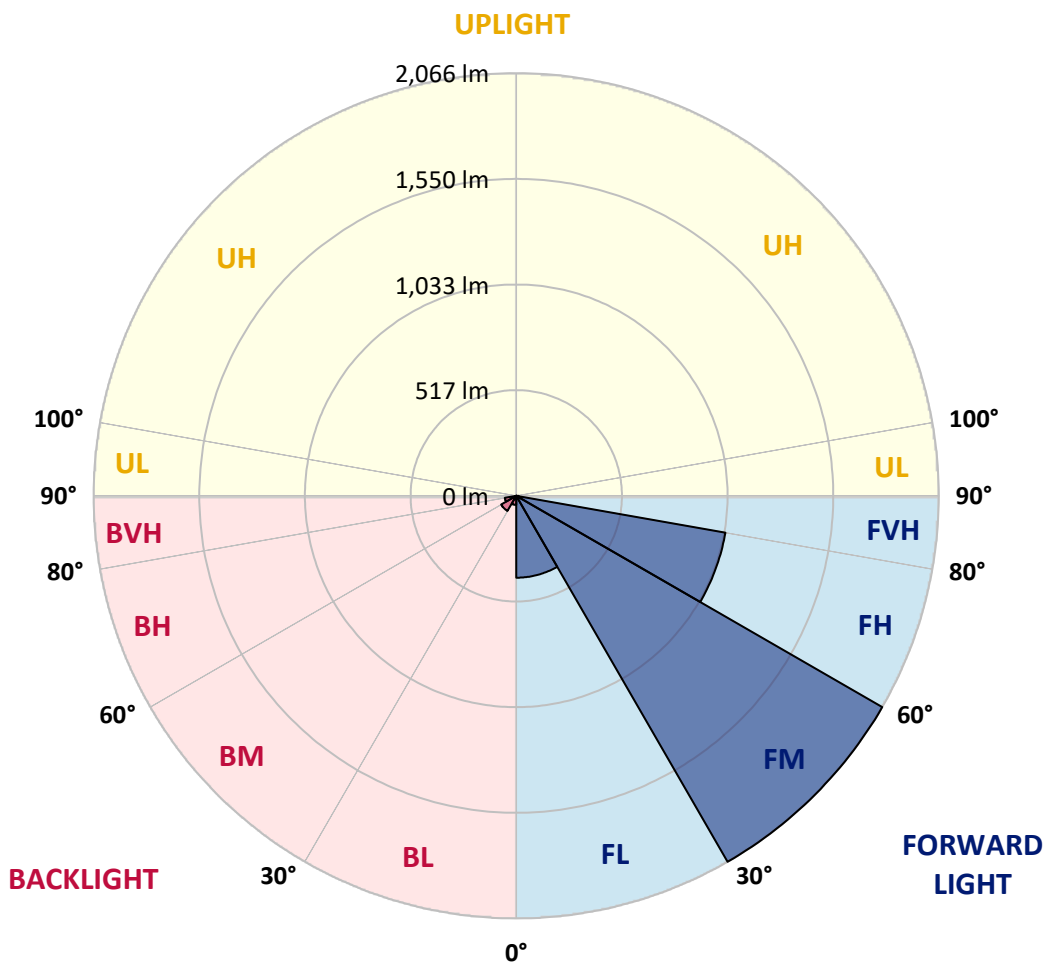


REPORT NUMBER: P594038  
 CATALOG NUMBER: ISC-PA1B-727-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.4	10.8			
FM (30°-60°)	2066.2	55.8			
FH (60°-80°)	1038.6	28.0			G1/1800
FVH (80°-90°)	12.0	0.3			G1/100
BL (0°-30°)	44.4	1.2	B0/110		
BM (30°-60°)	85.2	2.3	B0/220		
BH (60°-80°)	56.6	1.5	B0/110		G0/110
BVH (80°-90°)	0.5	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: P594038  
 CATALOG NUMBER: ISC-PA1B-727-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3
2.5°	640.4	642.7	638.2	628.2	619.3	598.2	581.5	551.5	519.2	519.2	480.3
5°	716.1	713.8	711.6	703.8	697.2	679.4	657.1	624.9	574.8	570.4	505.9
7.5°	752.7	750.5	746.1	742.7	742.7	730.5	709.4	676.0	620.4	616.0	529.3
10°	796.1	791.7	791.7	782.8	780.5	766.1	755.0	726.1	664.9	659.3	555.9
12.5°	847.3	842.8	843.9	836.1	832.8	817.2	801.7	773.9	712.7	707.2	587.1
15°	876.2	873.9	880.6	881.7	883.9	870.6	856.2	827.2	766.1	758.3	623.8
17.5°	892.8	892.8	900.6	915.1	931.8	924.0	912.9	889.5	820.6	816.1	662.7
20°	925.1	921.8	935.1	948.4	969.6	976.2	972.9	955.1	886.2	872.8	704.9
22.5°	978.5	974.0	986.2	1002.9	1028.5	1030.7	1032.9	1024.0	952.9	939.5	749.4
25°	1104.1	1093.0	1081.9	1079.6	1089.6	1098.5	1091.9	1098.5	1028.5	1016.3	797.2
27.5°	1348.7	1329.8	1276.4	1217.5	1176.4	1184.2	1163.0	1175.3	1115.2	1099.7	841.7
30°	1583.3	1564.4	1521.1	1416.5	1322.0	1279.8	1248.6	1244.2	1204.2	1186.4	892.8
32.5°	1746.8	1734.5	1705.6	1635.6	1517.7	1409.9	1349.8	1328.7	1323.1	1295.3	958.4
35°	1858.0	1846.8	1826.8	1770.1	1683.4	1563.3	1459.9	1413.2	1455.5	1422.1	1032.9
37.5°	1924.7	1916.9	1894.6	1855.7	1809.0	1730.1	1596.7	1522.2	1588.9	1557.7	1128.6
40°	1973.6	1953.6	1938.0	1908.0	1892.4	1866.9	1752.3	1635.6	1733.4	1701.2	1223.1
42.5°	1978.0	1969.1	1956.9	1939.1	1941.3	1958.0	1918.0	1766.8	1879.1	1849.1	1323.1
45°	1976.9	1968.0	1959.1	1941.3	1952.5	2014.7	2051.4	1904.7	2021.4	1990.3	1428.8
47.5°	1944.7	1938.0	1940.2	1940.2	1954.7	2039.2	2154.8	2044.8	2163.7	2133.7	1556.6
50°	1831.3	1837.9	1882.4	1905.8	1931.3	2040.3	2227.1	2191.5	2317.2	2296.0	1680.1
52.5°	1472.1	1509.9	1690.1	1813.5	1888.0	2018.1	2273.8	2346.1	2511.7	2479.5	1820.2
55°	1125.2	1127.4	1300.9	1587.8	1802.4	1978.0	2300.5	2450.6	2659.6	2641.8	1943.6
57.5°	912.9	911.7	997.4	1255.3	1580.0	1914.7	2307.2	2527.3	2816.4	2783.0	2085.9
60°	746.1	741.6	792.8	951.8	1290.9	1765.7	2282.7	2589.6	2977.6	2965.4	2234.9
62.5°	539.3	543.7	611.5	735.0	995.1	1491.0	2230.4	2608.5	3172.2	3160.0	2401.7
65°	310.2	323.6	398.1	529.3	762.8	1166.4	2081.4	2594.0	3362.3	3361.2	2556.2
67.5°	155.7	156.8	196.8	295.8	512.6	872.8	1752.3	2502.8	3520.2	3495.8	2645.2
70°	100.1	102.3	115.6	152.3	283.5	604.9	1338.7	2244.9	3421.3	3412.4	2515.1
72.5°	76.7	78.9	90.1	100.1	147.9	343.6	906.2	1744.5	2856.4	2832.0	1961.4
75°	60.0	61.2	72.3	81.2	99.0	161.2	454.8	1087.4	1840.2	1776.8	1116.3
77.5°	47.8	48.9	54.5	64.5	75.6	90.1	134.5	489.2	748.3	668.2	362.5
80°	31.1	32.2	41.1	50.0	64.5	58.9	52.3	141.2	160.1	144.5	64.5
82.5°	17.8	18.9	27.8	40.0	48.9	33.4	30.0	41.1	37.8	36.7	20.0
85°	5.6	5.6	18.9	27.8	22.2	10.0	18.9	14.5	12.2	11.1	6.7
87.5°	1.1	1.1	8.9	10.0	3.3	1.1	2.2	3.3	4.4	5.6	3.3
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: P594038  
 CATALOG NUMBER: ISC-PA1B-727-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3	460.3
2.5°	461.4	439.2	398.1	362.5	328.0	298.0	276.9	258.0	244.6	241.3	235.7
5°	464.8	421.4	342.5	275.7	217.9	171.2	144.5	126.8	117.9	112.3	112.3
7.5°	468.1	403.6	290.2	201.3	137.9	104.5	87.8	80.1	76.7	75.6	74.5
10°	474.8	390.3	245.7	144.5	94.5	78.9	72.3	68.9	66.7	65.6	65.6
12.5°	485.9	379.2	204.6	106.7	77.8	70.0	65.6	61.2	58.9	57.8	57.8
15°	500.3	371.4	169.0	85.6	71.2	63.4	57.8	53.4	50.0	48.9	48.9
17.5°	520.4	365.8	139.0	75.6	65.6	56.7	50.0	45.6	42.3	41.1	41.1
20°	540.4	365.8	114.5	70.0	60.0	50.0	43.4	37.8	34.5	33.4	33.4
22.5°	567.1	364.7	95.6	64.5	53.4	43.4	36.7	30.0	27.8	26.7	26.7
25°	589.3	364.7	82.3	58.9	46.7	37.8	30.0	24.5	22.2	21.1	21.1
27.5°	616.0	361.4	70.0	52.3	40.0	31.1	24.5	20.0	17.8	16.7	16.7
30°	639.3	356.9	62.3	46.7	34.5	25.6	20.0	15.6	14.5	14.5	14.5
32.5°	678.2	353.6	55.6	40.0	28.9	21.1	15.6	12.2	11.1	11.1	11.1
35°	724.9	353.6	51.1	34.5	24.5	17.8	12.2	10.0	8.9	8.9	8.9
37.5°	786.1	356.9	45.6	30.0	20.0	14.5	10.0	7.8	6.7	6.7	6.7
40°	850.6	364.7	41.1	26.7	17.8	11.1	7.8	5.6	4.4	5.6	5.6
42.5°	927.3	372.5	36.7	23.3	14.5	8.9	5.6	3.3	2.2	3.3	3.3
45°	1002.9	380.3	34.5	20.0	12.2	6.7	3.3	2.2	1.1	2.2	2.2
47.5°	1096.3	399.2	32.2	17.8	10.0	5.6	2.2	1.1	0.0	1.1	1.1
50°	1204.2	420.3	28.9	14.5	7.8	4.4	2.2	0.0	0.0	0.0	0.0
52.5°	1307.6	438.1	25.6	12.2	6.7	3.3	1.1	0.0	0.0	0.0	0.0
55°	1411.0	449.2	22.2	10.0	5.6	3.3	1.1	0.0	0.0	0.0	0.0
57.5°	1522.2	455.9	20.0	8.9	4.4	2.2	1.1	0.0	0.0	0.0	0.0
60°	1645.6	455.9	16.7	7.8	3.3	2.2	1.1	0.0	0.0	0.0	0.0
62.5°	1782.3	442.5	15.6	6.7	3.3	2.2	1.1	0.0	0.0	0.0	0.0
65°	1893.5	394.7	13.3	5.6	3.3	2.2	1.1	0.0	0.0	0.0	0.0
67.5°	1898.0	312.4	12.2	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0
70°	1692.3	213.5	10.0	3.3	2.2	2.2	1.1	0.0	0.0	0.0	0.0
72.5°	1266.4	114.5	8.9	3.3	2.2	1.1	1.1	0.0	0.0	0.0	0.0
75°	682.7	44.5	5.6	3.3	2.2	1.1	1.1	0.0	0.0	0.0	0.0
77.5°	199.0	22.2	3.3	2.2	2.2	1.1	1.1	0.0	0.0	0.0	0.0
80°	36.7	11.1	2.2	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	4.4	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	4.4	2.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.1	1.1	1.1	1.1	1.1	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)