

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: P594560

Luminaire Tested: **ISS-PA1B-740-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594560
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-PA1B-740-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 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: 4429 lumens
Efficiency: N/A
Efficacy: 121.7 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

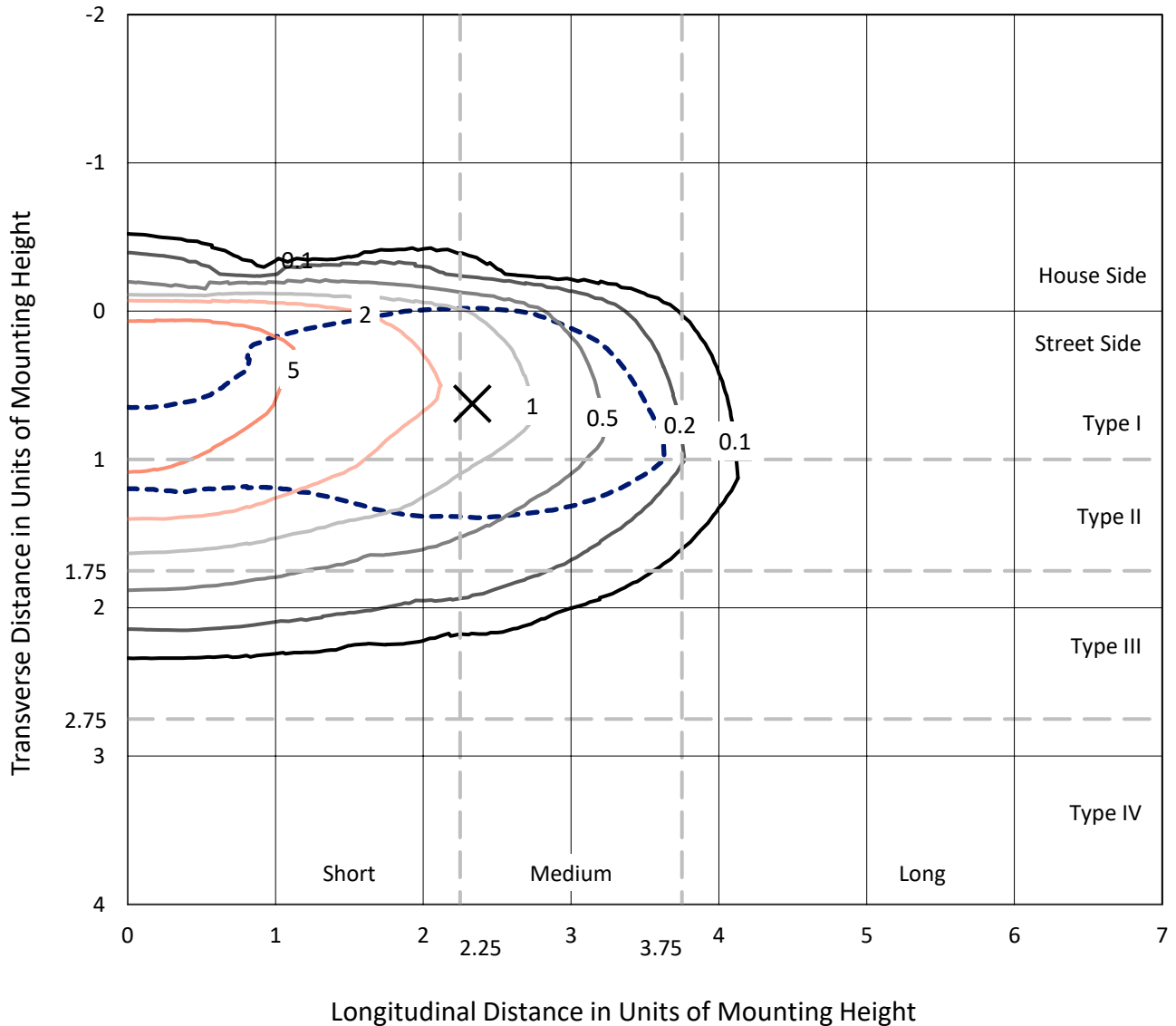
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594560
 CATALOG NUMBER: ISS-PA1B-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

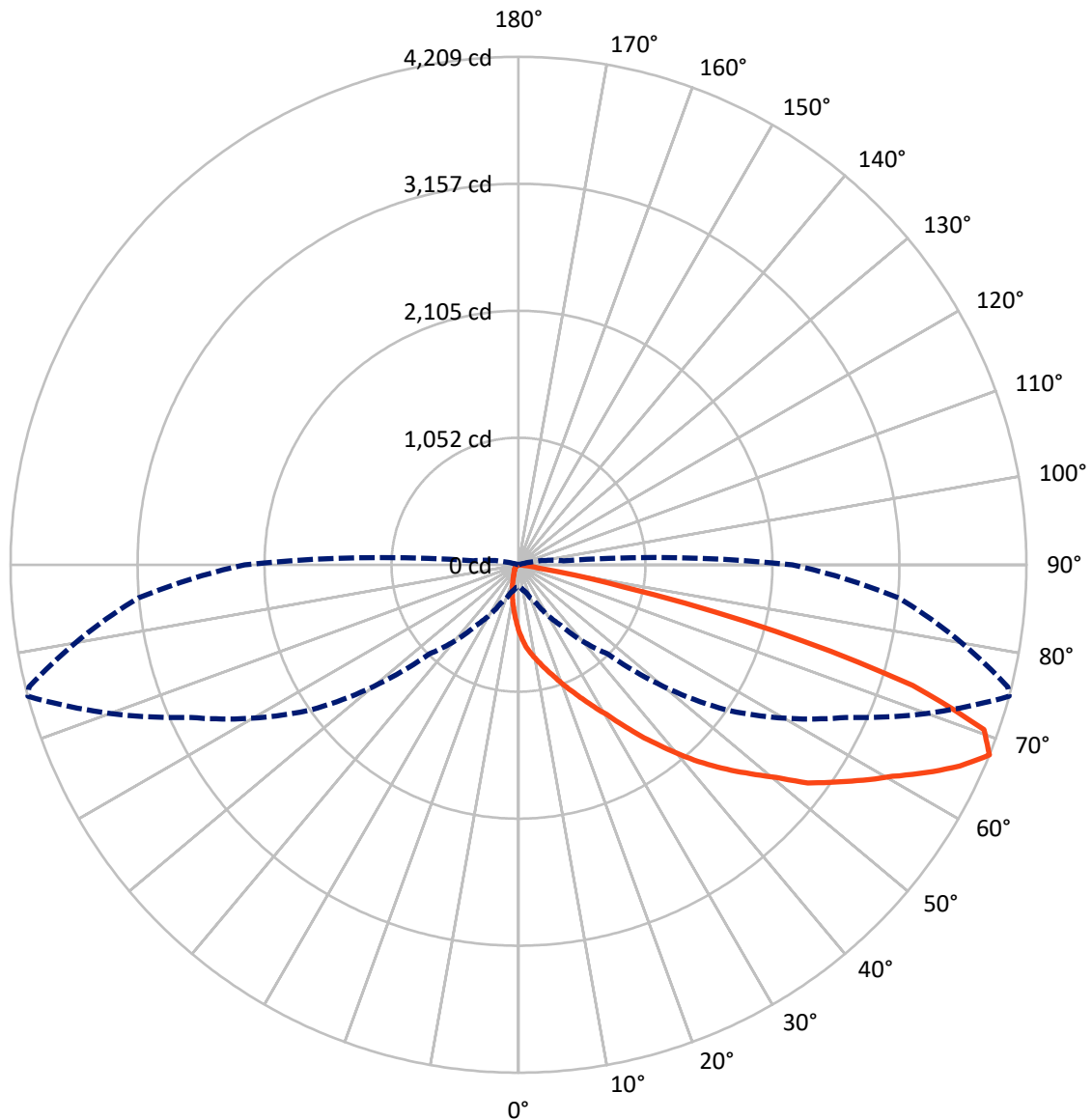
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P594560
CATALOG NUMBER: ISS-PA1B-740-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P594560
 CATALOG NUMBER: ISS-PA1B-740-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	223.3	0.0	223.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4205.7	0.0	4205.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	4429.0	0.0	4429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.1
10°-20°	160.2	3.6
20°-30°	322.0	7.3
30°-40°	609.1	13.8
40°-50°	911.3	20.6
50°-60°	1052.1	23.8
60°-70°	932.6	21.1
70°-80°	376.9	8.5
80°-90°	15.0	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°	4429.0	100.0
0°-180°	4429.0	100.0

Coefficient of Utilization

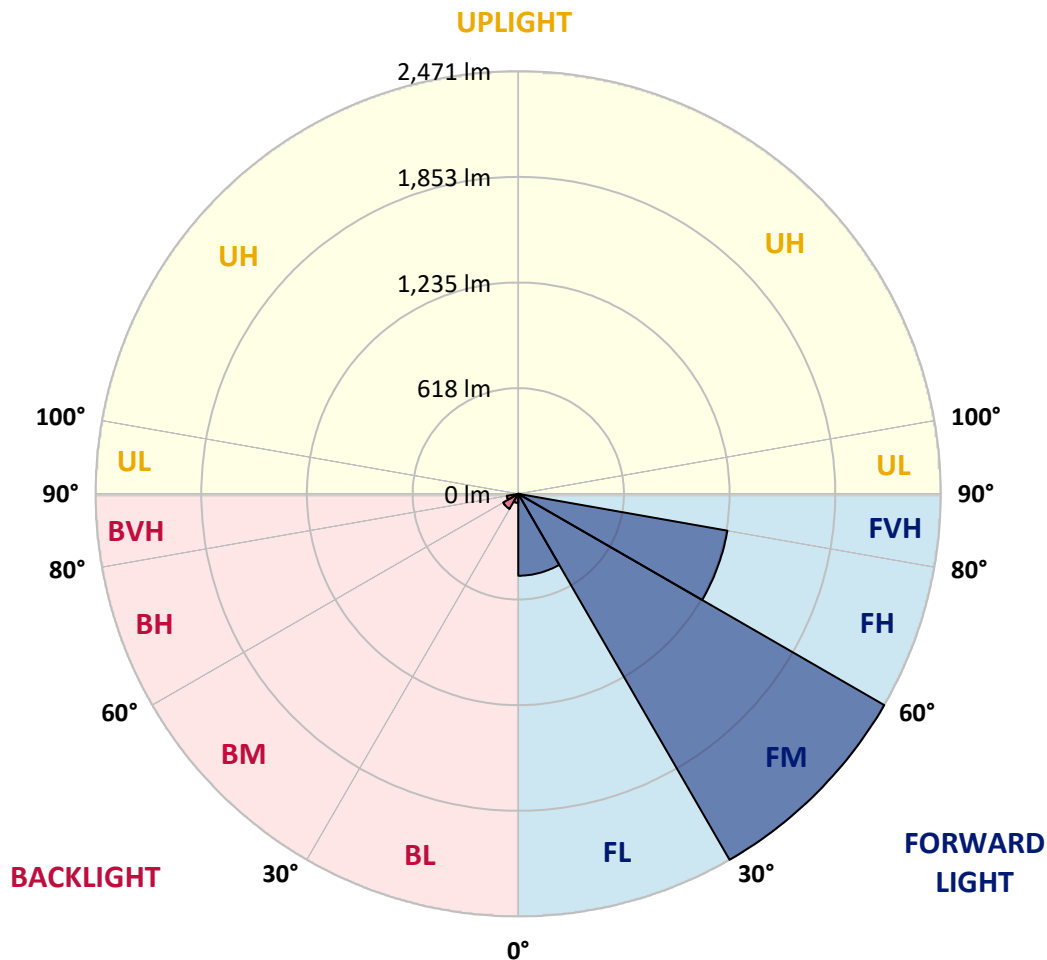


REPORT NUMBER: P594560
 CATALOG NUMBER: ISS-PA1B-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.8	10.8			
FM (30°-60°)	2470.7	55.8			
FH (60°-80°)	1241.8	28.0			G1/1800
FVH (80°-90°)	14.4	0.3			G1/100
BL (0°-30°)	53.1	1.2	B0/110		
BM (30°-60°)	101.9	2.3	B0/220		
BH (60°-80°)	67.7	1.5	B0/110		G0/110
BVH (80°-90°)	0.6	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: P594560

CATALOG NUMBER: ISS-PA1B-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4
2.5°	765.8	768.5	763.1	751.2	740.5	715.3	695.3	659.4	620.9	620.9	574.4
5°	856.2	853.6	850.9	841.6	833.6	812.3	785.7	747.2	687.4	682.0	604.9
7.5°	900.1	897.4	892.1	888.1	888.1	873.5	848.2	808.3	741.9	736.6	632.9
10°	951.9	946.6	946.6	936.0	933.3	916.0	902.7	868.2	795.1	788.4	664.8
12.5°	1013.1	1007.8	1009.1	999.8	995.8	977.2	958.6	925.3	852.2	845.6	702.0
15°	1047.7	1045.0	1053.0	1054.3	1057.0	1041.0	1023.7	989.2	916.0	906.7	745.9
17.5°	1067.6	1067.6	1076.9	1094.2	1114.1	1104.8	1091.5	1063.6	981.2	975.9	792.4
20°	1106.2	1102.2	1118.1	1134.1	1159.3	1167.3	1163.3	1142.1	1059.6	1043.7	842.9
22.5°	1170.0	1164.7	1179.3	1199.2	1229.8	1232.5	1235.1	1224.5	1139.4	1123.4	896.1
25°	1320.2	1306.9	1293.6	1291.0	1302.9	1313.6	1305.6	1313.6	1229.8	1215.2	953.3
27.5°	1612.7	1590.1	1526.3	1455.8	1406.6	1415.9	1390.7	1405.3	1333.5	1314.9	1006.4
30°	1893.2	1870.6	1818.8	1693.8	1580.8	1530.3	1493.0	1487.7	1439.9	1418.6	1067.6
32.5°	2088.7	2074.0	2039.5	1955.7	1814.8	1685.8	1614.0	1588.8	1582.1	1548.9	1146.0
35°	2221.6	2208.3	2184.4	2116.6	2012.9	1869.3	1745.7	1689.8	1740.3	1700.5	1235.1
37.5°	2301.4	2292.1	2265.5	2219.0	2163.1	2068.7	1909.2	1820.1	1899.9	1862.7	1349.5
40°	2359.9	2336.0	2317.3	2281.5	2262.8	2232.3	2095.3	1955.7	2072.7	2034.2	1462.5
42.5°	2365.2	2354.6	2340.0	2318.7	2321.3	2341.3	2293.4	2112.6	2246.9	2211.0	1582.1
45°	2363.9	2353.2	2342.6	2321.3	2334.6	2409.1	2453.0	2277.5	2417.1	2379.8	1708.4
47.5°	2325.3	2317.3	2320.0	2320.0	2337.3	2438.3	2576.6	2445.0	2587.2	2551.3	1861.3
50°	2189.7	2197.7	2250.9	2278.8	2309.4	2439.7	2663.0	2620.5	2770.7	2745.5	2008.9
52.5°	1760.3	1805.5	2020.9	2168.4	2257.5	2413.1	2718.9	2805.3	3003.4	2964.8	2176.4
55°	1345.5	1348.1	1555.5	1898.6	2155.1	2365.2	2750.8	2930.3	3180.2	3158.9	2324.0
57.5°	1091.5	1090.2	1192.6	1501.0	1889.2	2289.4	2758.7	3022.0	3367.7	3327.8	2494.2
60°	892.1	886.8	947.9	1138.1	1543.6	2111.3	2729.5	3096.4	3560.4	3545.8	2672.3
62.5°	644.8	650.1	731.2	878.8	1189.9	1782.9	2667.0	3119.0	3793.1	3778.5	2871.8
65°	370.9	386.9	476.0	632.9	912.0	1394.7	2488.9	3101.8	4020.5	4019.1	3056.6
67.5°	186.1	187.5	235.3	353.7	612.9	1043.7	2095.3	2992.7	4209.3	4180.0	3162.9
70°	119.7	122.3	138.3	182.1	339.0	723.3	1600.7	2684.3	4090.9	4080.3	3007.4
72.5°	91.7	94.4	107.7	119.7	176.8	410.8	1083.6	2086.0	3415.5	3386.3	2345.3
75°	71.8	73.1	86.4	97.1	118.3	192.8	543.8	1300.3	2200.4	2124.6	1334.8
77.5°	57.2	58.5	65.1	77.1	90.4	107.7	160.9	585.0	894.8	799.0	433.4
80°	37.2	38.6	49.2	59.8	77.1	70.5	62.5	168.8	191.5	172.8	77.1
82.5°	21.3	22.6	33.2	47.9	58.5	39.9	35.9	49.2	45.2	43.9	23.9
85°	6.6	6.6	22.6	33.2	26.6	12.0	22.6	17.3	14.6	13.3	8.0
87.5°	1.3	1.3	10.6	12.0	4.0	1.3	2.7	4.0	5.3	6.6	4.0
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: P594560
 CATALOG NUMBER: ISS-PA1B-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4
2.5°	551.7	525.2	476.0	433.4	392.2	356.3	331.0	308.4	292.5	288.5	281.9
5°	555.7	503.9	409.5	329.7	260.6	204.7	172.8	151.6	140.9	134.3	134.3
7.5°	559.7	482.6	347.0	240.6	164.9	125.0	105.0	95.7	91.7	90.4	89.1
10°	567.7	466.7	293.8	172.8	113.0	94.4	86.4	82.4	79.8	78.4	78.4
12.5°	581.0	453.4	244.6	127.6	93.1	83.8	78.4	73.1	70.5	69.1	69.1
15°	598.3	444.1	202.1	102.4	85.1	75.8	69.1	63.8	59.8	58.5	58.5
17.5°	622.2	437.4	166.2	90.4	78.4	67.8	59.8	54.5	50.5	49.2	49.2
20°	646.1	437.4	136.9	83.8	71.8	59.8	51.9	45.2	41.2	39.9	39.9
22.5°	678.1	436.1	114.3	77.1	63.8	51.9	43.9	35.9	33.2	31.9	31.9
25°	704.6	436.1	98.4	70.5	55.8	45.2	35.9	29.2	26.6	25.3	25.3
27.5°	736.6	432.1	83.8	62.5	47.9	37.2	29.2	23.9	21.3	19.9	19.9
30°	764.5	426.8	74.5	55.8	41.2	30.6	23.9	18.6	17.3	17.3	17.3
32.5°	811.0	422.8	66.5	47.9	34.6	25.3	18.6	14.6	13.3	13.3	13.3
35°	866.8	422.8	61.2	41.2	29.2	21.3	14.6	12.0	10.6	10.6	10.6
37.5°	940.0	426.8	54.5	35.9	23.9	17.3	12.0	9.3	8.0	8.0	8.0
40°	1017.1	436.1	49.2	31.9	21.3	13.3	9.3	6.6	5.3	6.6	6.6
42.5°	1108.8	445.4	43.9	27.9	17.3	10.6	6.6	4.0	2.7	4.0	4.0
45°	1199.2	454.7	41.2	23.9	14.6	8.0	4.0	2.7	1.3	2.7	2.7
47.5°	1310.9	477.3	38.6	21.3	12.0	6.6	2.7	1.3	0.0	1.3	1.3
50°	1439.9	502.6	34.6	17.3	9.3	5.3	2.7	0.0	0.0	0.0	0.0
52.5°	1563.5	523.8	30.6	14.6	8.0	4.0	1.3	0.0	0.0	0.0	0.0
55°	1687.2	537.1	26.6	12.0	6.6	4.0	1.3	0.0	0.0	0.0	0.0
57.5°	1820.1	545.1	23.9	10.6	5.3	2.7	1.3	0.0	0.0	0.0	0.0
60°	1967.7	545.1	19.9	9.3	4.0	2.7	1.3	0.0	0.0	0.0	0.0
62.5°	2131.2	529.1	18.6	8.0	4.0	2.7	1.3	0.0	0.0	0.0	0.0
65°	2264.2	472.0	16.0	6.6	4.0	2.7	1.3	0.0	0.0	0.0	0.0
67.5°	2269.5	373.6	14.6	5.3	4.0	2.7	1.3	0.0	0.0	0.0	0.0
70°	2023.5	255.3	12.0	4.0	2.7	2.7	1.3	0.0	0.0	0.0	0.0
72.5°	1514.3	136.9	10.6	4.0	2.7	1.3	1.3	0.0	0.0	0.0	0.0
75°	816.3	53.2	6.6	4.0	2.7	1.3	1.3	0.0	0.0	0.0	0.0
77.5°	238.0	26.6	4.0	2.7	2.7	1.3	1.3	0.0	0.0	0.0	0.0
80°	43.9	13.3	2.7	2.7	2.7	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	12.0	5.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	5.3	2.7	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.3	1.3	1.3	1.3	1.3	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)