

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: P595275

Luminaire Tested: **IST-PA1E-727-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-727-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6245 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

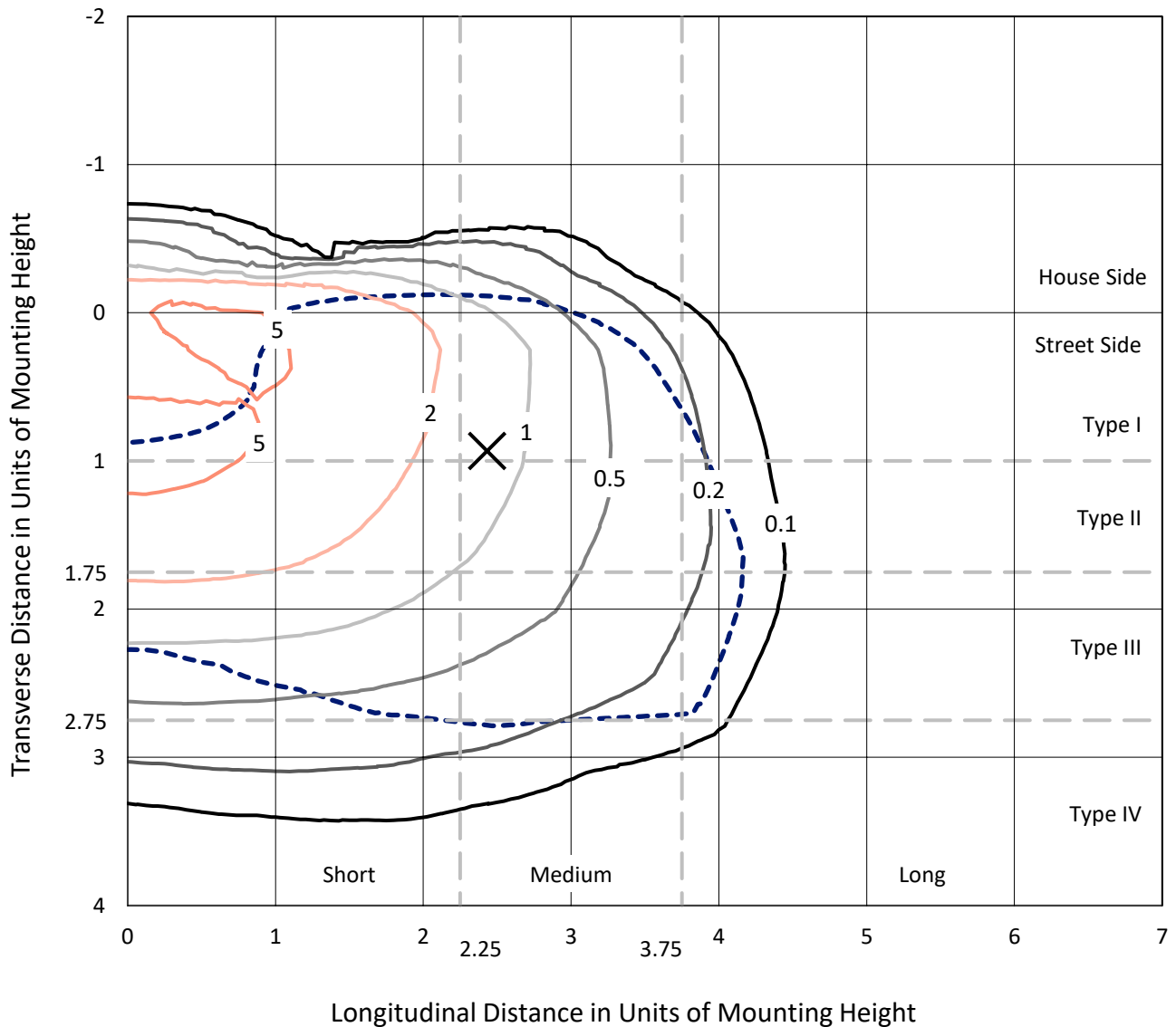
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595275
 CATALOG NUMBER: IST-PA1E-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

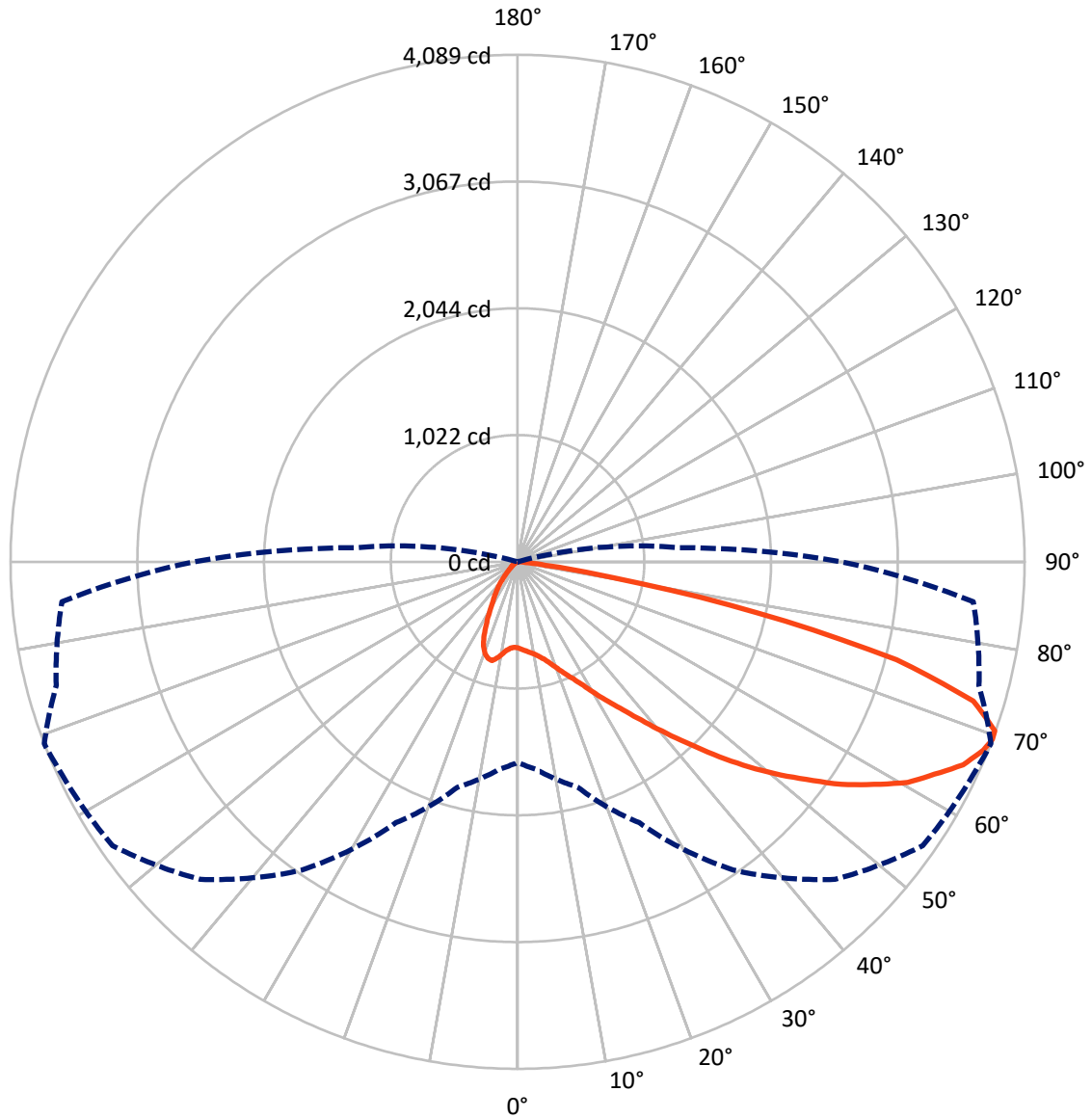
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

REPORT NUMBER: P595275
CATALOG NUMBER: IST-PA1E-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P595275
 CATALOG NUMBER: IST-PA1E-727-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	608.5	0.0	608.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	5636.5	0.0	5636.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	6245.0	0.0	6245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	1.1
10°-20°	175.3	2.8
20°-30°	291.8	4.7
30°-40°	525.3	8.4
40°-50°	952.5	15.3
50°-60°	1488.5	23.8
60°-70°	1722.2	27.6
70°-80°	963.1	15.4
80°-90°	60.1	1.0
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°	6245.0	100.0
0°-180°	6245.0	100.0

Coefficient of Utilization

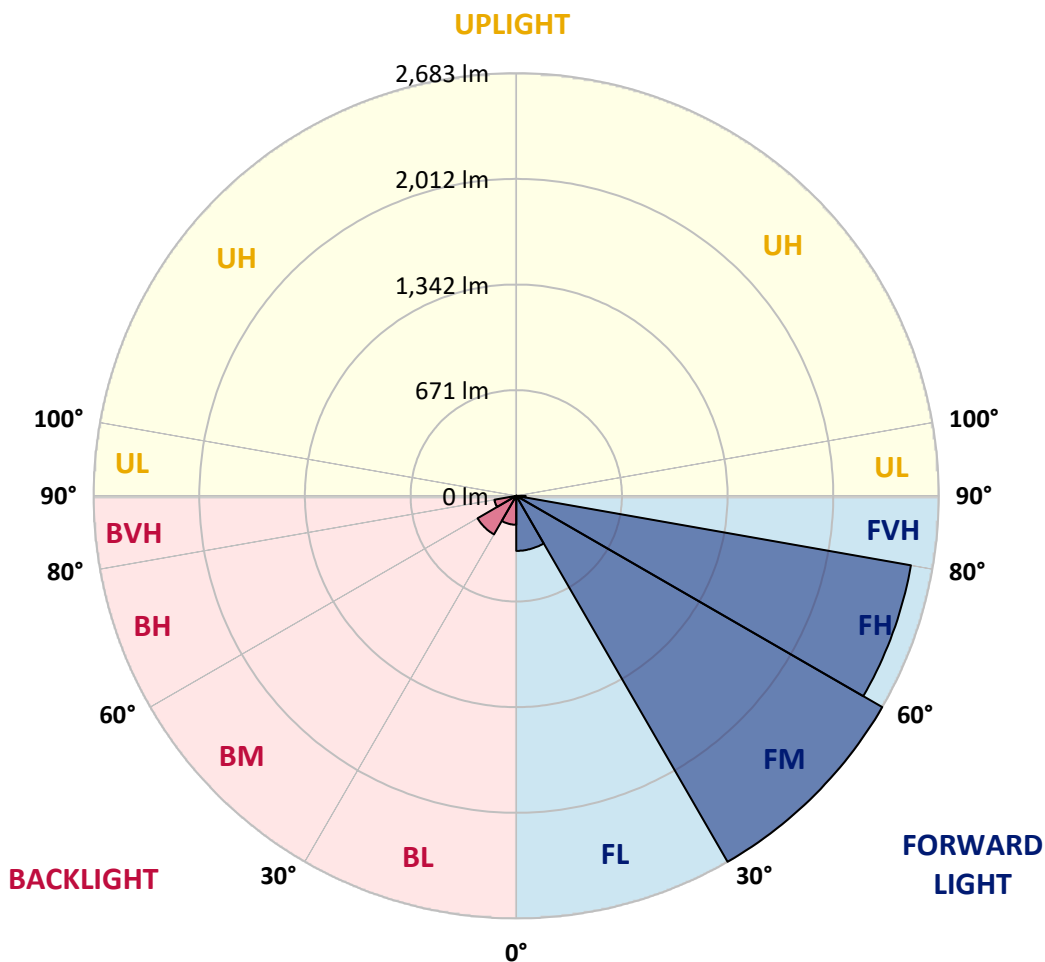


REPORT NUMBER: P595275
 CATALOG NUMBER: IST-PA1E-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.4	5.6			
FM (30°-60°)	2683.1	43.0			
FH (60°-80°)	2544.4	40.7			G2/5000
FVH (80°-90°)	59.7	1.0			G1/100
BL (0°-30°)	183.9	2.9	B1/500		
BM (30°-60°)	283.3	4.5	B1/1000		
BH (60°-80°)	140.9	2.3	B1/500		G1/500
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: B1-U0-G2
 Type III Medium





REPORT NUMBER: P595275
 CATALOG NUMBER: IST-PA1E-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	694.7	694.7	694.7	694.7	694.7	694.7	694.7	694.7	694.7	694.7	694.7
2.5°	719.6	719.6	719.6	715.5	717.5	715.5	713.4	707.1	709.2	707.1	700.9
5°	694.7	696.7	703.0	707.1	717.5	721.7	723.8	723.8	721.7	717.5	713.4
7.5°	646.8	646.8	653.1	665.5	686.3	709.2	727.9	738.3	740.4	740.4	734.2
10°	634.3	634.3	642.7	651.0	671.8	698.8	727.9	752.9	757.0	761.2	759.1
12.5°	628.1	630.2	638.5	653.1	680.1	705.1	736.3	771.6	784.1	794.5	796.6
15°	636.4	636.4	644.7	659.3	690.5	725.9	765.4	804.9	817.4	831.9	842.3
17.5°	648.9	653.1	657.2	671.8	700.9	744.6	796.6	848.6	863.1	881.8	890.2
20°	669.7	669.7	673.9	686.3	717.5	769.5	842.3	904.7	917.2	929.7	940.1
22.5°	694.7	696.7	696.7	707.1	742.5	798.6	881.8	958.8	979.6	985.8	990.0
25°	769.5	765.4	750.8	744.6	771.6	831.9	929.7	1023.3	1046.1	1052.4	1044.1
27.5°	925.5	908.9	869.4	827.8	823.6	883.9	994.1	1104.4	1129.3	1131.4	1102.3
30°	1121.0	1123.1	1058.6	969.2	908.9	940.1	1064.9	1206.3	1231.2	1220.8	1175.1
32.5°	1362.3	1351.9	1304.0	1175.1	1054.5	1027.4	1141.8	1312.4	1341.5	1324.8	1264.5
35°	1568.2	1574.4	1516.2	1401.8	1250.0	1162.6	1235.4	1430.9	1466.3	1437.1	1362.3
37.5°	1740.8	1749.1	1713.8	1620.2	1485.0	1347.7	1358.1	1570.3	1618.1	1589.0	1495.4
40°	1932.1	1938.4	1923.8	1821.9	1701.3	1568.2	1522.4	1730.4	1794.9	1755.4	1657.6
42.5°	2142.2	2165.1	2140.1	2059.0	1934.2	1819.8	1751.2	1925.9	1990.4	1965.4	1834.4
45°	2429.2	2431.3	2402.2	2321.1	2192.1	2098.5	2015.3	2133.9	2217.1	2185.9	2032.0
47.5°	2641.4	2655.9	2639.3	2583.1	2479.1	2416.7	2302.3	2362.7	2450.0	2410.5	2235.8
50°	2803.6	2843.1	2828.5	2845.2	2793.2	2766.1	2591.4	2599.8	2685.0	2651.8	2443.8
52.5°	2893.0	2942.9	2947.1	3032.4	3076.0	3142.6	2872.2	2859.7	2913.8	2884.7	2655.9
55°	2880.5	2893.0	2997.0	3153.0	3323.5	3475.4	3146.7	3094.8	3169.6	3088.5	2880.5
57.5°	2759.9	2791.1	2974.1	3167.5	3469.1	3689.6	3383.8	3325.6	3388.0	3279.9	3111.4
60°	2587.3	2633.0	2868.1	3144.7	3554.4	3818.5	3614.7	3556.5	3612.6	3481.6	3373.4
62.5°	2431.3	2452.1	2668.4	3049.0	3504.5	3812.3	3793.6	3739.5	3772.8	3635.5	3598.1
65°	2208.8	2217.1	2431.3	2876.4	3394.2	3770.7	3891.3	3912.1	3947.5	3764.5	3758.2
67.5°	1865.6	1884.3	2096.4	2574.8	3211.2	3689.6	3968.3	4009.9	4051.5	3833.1	3787.3
69°	1618.1	1678.4	1882.2	2321.1	3034.4	3620.9	3989.1	4055.6	4088.9	3851.8	3689.6
70°	1416.3	1468.3	1703.4	2125.6	2878.5	3544.0	4003.6	4049.4	4082.7	3812.3	3529.4
72.5°	711.3	777.8	1100.2	1551.5	2287.8	3192.5	3928.8	3878.8	3843.5	3506.6	2855.6
75°	274.5	284.9	472.1	883.9	1430.9	2343.9	3354.7	3261.1	3157.1	2660.1	1693.0
77.5°	151.8	149.7	205.9	391.0	609.4	1146.0	2269.1	2119.3	1975.8	1428.8	686.3
80°	64.5	68.6	89.4	187.2	320.3	397.2	1102.3	979.6	779.9	453.4	164.3
82.5°	39.5	41.6	62.4	114.4	222.5	151.8	357.7	305.7	224.6	122.7	39.5
85°	12.5	14.6	43.7	77.0	108.1	62.4	81.1	70.7	62.4	52.0	12.5
87.5°	2.1	2.1	16.6	41.6	29.1	10.4	8.3	14.6	22.9	25.0	4.2
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: P595275
 CATALOG NUMBER: IST-PA1E-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	694.7	694.7	694.7	694.7	694.7	694.7	694.7	694.7	694.7	694.7	694.7
2.5°	698.8	694.7	690.5	688.4	688.4	684.3	682.2	680.1	680.1	678.0	678.0
5°	707.1	703.0	698.8	696.7	692.6	690.5	690.5	690.5	688.4	690.5	692.6
7.5°	727.9	721.7	719.6	717.5	717.5	711.3	700.9	673.9	646.8	638.5	630.2
10°	757.0	755.0	755.0	755.0	740.4	686.3	611.5	544.9	509.6	480.4	480.4
12.5°	798.6	798.6	796.6	790.3	715.5	584.4	468.0	368.1	309.9	276.6	280.8
15°	844.4	842.3	846.5	807.0	630.2	451.3	282.9	199.7	168.5	164.3	164.3
17.5°	892.2	896.4	892.2	763.3	517.9	278.7	168.5	151.8	147.7	147.7	147.7
20°	942.2	938.0	931.8	688.4	376.4	174.7	145.6	141.4	137.3	135.2	135.2
22.5°	992.1	987.9	946.3	592.7	235.0	143.5	137.3	128.9	122.7	120.6	120.6
25°	1039.9	1039.9	919.3	470.0	160.1	135.2	124.8	116.5	110.2	104.0	104.0
27.5°	1100.2	1104.4	875.6	328.6	135.2	124.8	112.3	99.8	91.5	87.4	87.4
30°	1168.9	1175.1	804.9	214.2	122.7	110.2	97.8	83.2	70.7	66.6	64.5
32.5°	1250.0	1256.2	723.8	141.4	110.2	95.7	81.1	62.4	49.9	47.8	45.8
35°	1354.0	1339.4	626.0	112.3	95.7	81.1	62.4	43.7	35.4	33.3	33.3
37.5°	1482.9	1451.7	513.7	97.8	81.1	64.5	45.8	29.1	22.9	22.9	20.8
40°	1630.6	1543.2	397.2	87.4	68.6	49.9	29.1	18.7	14.6	14.6	14.6
42.5°	1792.8	1620.2	282.9	77.0	56.2	35.4	18.7	10.4	8.3	8.3	8.3
45°	1980.0	1690.9	193.4	66.6	47.8	25.0	10.4	4.2	4.2	4.2	4.2
47.5°	2167.2	1736.6	128.9	58.2	35.4	14.6	6.2	2.1	2.1	2.1	2.1
50°	2356.4	1772.0	99.8	49.9	25.0	8.3	2.1	0.0	0.0	0.0	0.0
52.5°	2524.9	1797.0	81.1	41.6	16.6	6.2	2.1	0.0	0.0	0.0	0.0
55°	2670.5	1799.0	70.7	33.3	12.5	4.2	0.0	0.0	0.0	0.0	0.0
57.5°	2818.1	1782.4	60.3	25.0	8.3	2.1	0.0	0.0	0.0	0.0	0.0
60°	2907.6	1738.7	47.8	18.7	6.2	2.1	0.0	0.0	0.0	0.0	0.0
62.5°	2961.6	1665.9	37.4	12.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0
65°	2930.4	1574.4	27.0	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
67.5°	2784.9	1433.0	18.7	6.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
69°	2612.2	1304.0	16.6	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
70°	2460.4	1204.2	14.6	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	1832.3	775.8	12.5	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
75°	1029.5	260.0	8.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	386.8	66.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	85.3	16.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	0.0	0.0	0.0	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)