

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: P595273

Luminaire Tested: **IST-PA1E-727-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
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-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6049 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

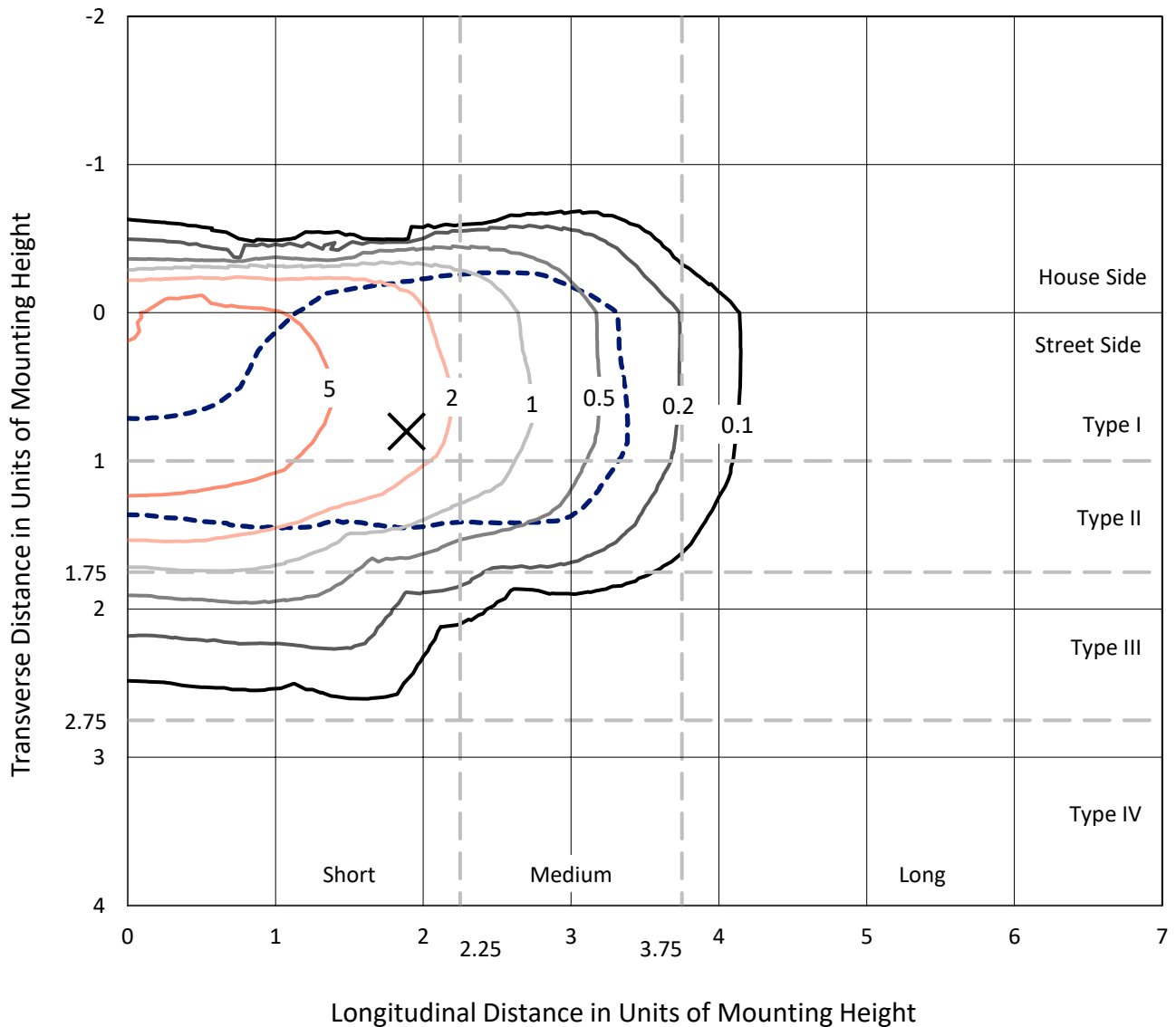
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

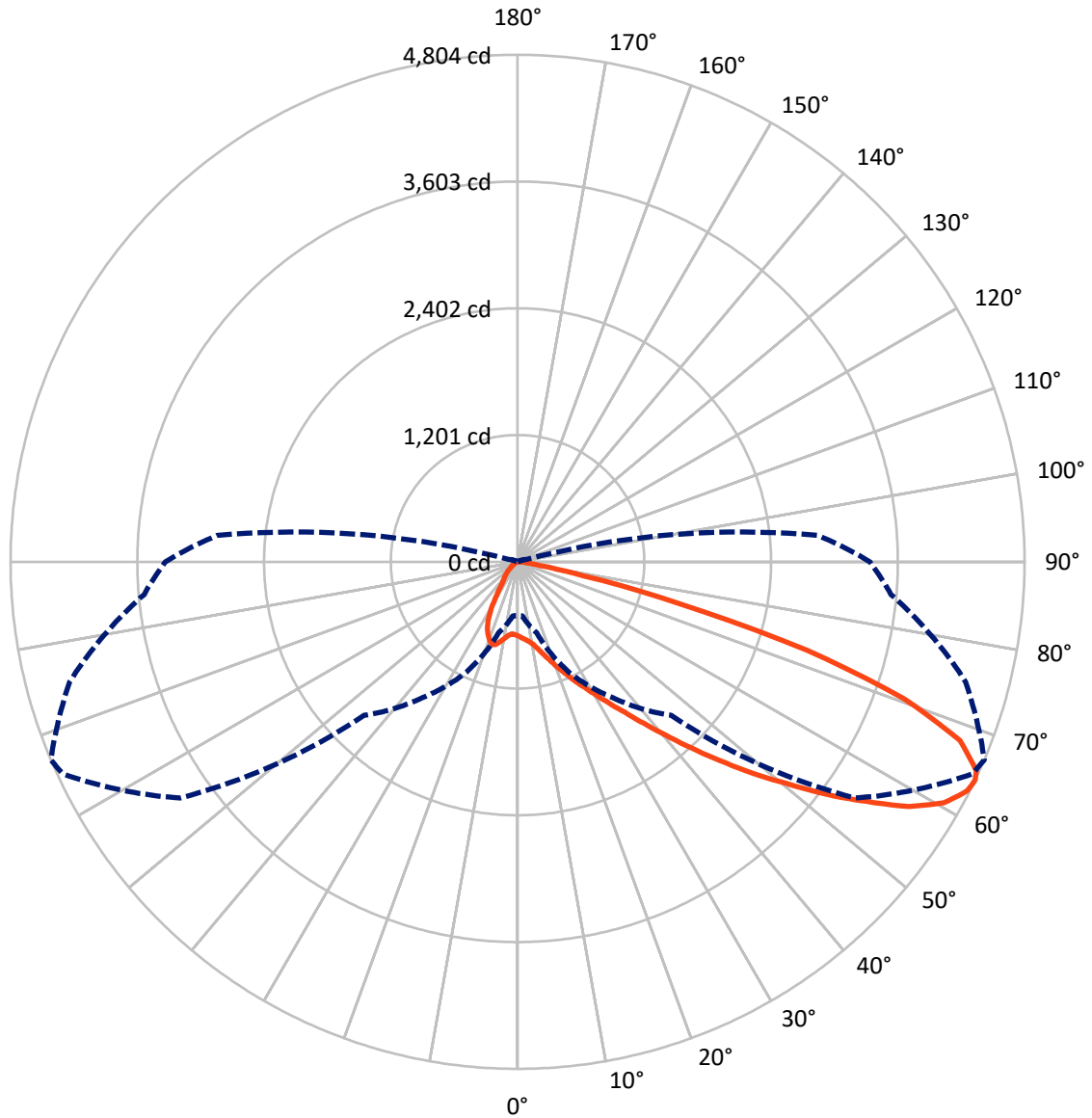
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	773.8	0.0	773.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5275.2	0.0	5275.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	6049.0	0.0	6049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.1
10°-20°	196.8	3.3
20°-30°	357.1	5.9
30°-40°	684.0	11.3
40°-50°	1260.7	20.8
50°-60°	1628.2	26.9
60°-70°	1333.7	22.0
70°-80°	490.3	8.1
80°-90°	31.6	0.5
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°	6049.0	100.0
0°-180°	6049.0	100.0

Coefficient of Utilization



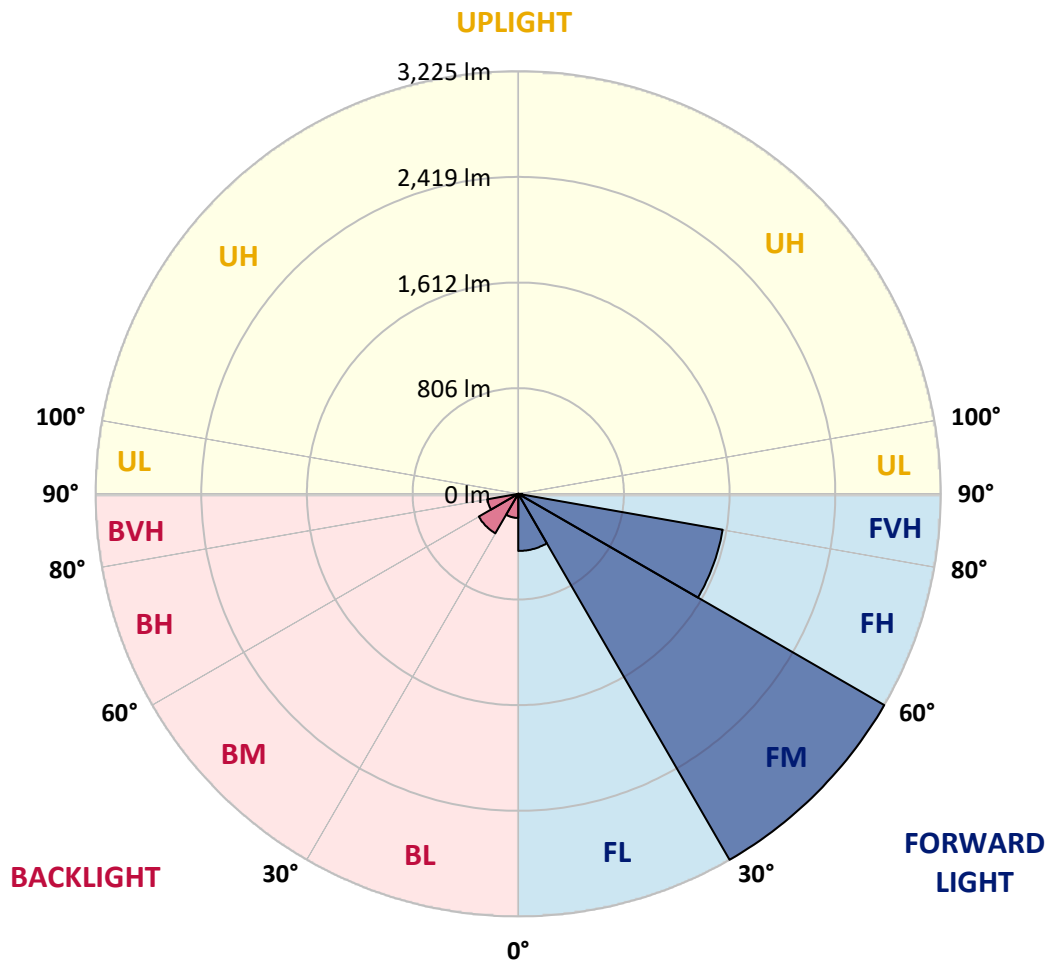
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.1	7.2			
FM (30°-60°)	3225.0	53.3			
FH (60°-80°)	1583.9	26.2			G1/1800
FVH (80°-90°)	30.2	0.5			G1/100
BL (0°-30°)	184.4	3.0	B1/500		
BM (30°-60°)	347.9	5.8	B1/1000		
BH (60°-80°)	240.1	4.0	B1/500		G1/500
BVH (80°-90°)	1.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9
2.5°	727.8	727.8	732.0	729.9	729.9	725.7	719.5	721.6	719.5	717.4	711.2
5°	715.3	717.4	719.5	723.7	732.0	736.1	736.1	738.2	738.2	736.1	727.8
7.5°	709.1	713.3	717.4	721.6	732.0	738.2	748.6	761.1	761.1	763.2	754.9
10°	732.0	736.1	742.4	748.6	759.0	769.4	777.7	792.3	792.3	796.4	794.4
12.5°	779.8	779.8	781.9	786.0	800.6	813.1	827.6	840.1	842.2	844.3	838.0
15°	838.0	838.0	840.1	840.1	848.4	867.1	894.2	906.7	904.6	902.5	890.0
17.5°	904.6	904.6	904.6	906.7	910.8	921.2	952.4	977.4	975.3	973.2	948.2
20°	967.0	971.1	975.3	977.4	981.5	989.8	1023.1	1052.2	1058.5	1050.1	1006.5
22.5°	1037.7	1039.7	1041.8	1048.1	1058.5	1062.6	1095.9	1139.6	1145.8	1135.4	1077.2
25°	1108.4	1112.5	1118.8	1127.1	1137.5	1158.3	1181.1	1239.4	1245.6	1233.1	1154.1
27.5°	1264.3	1262.2	1243.5	1229.0	1231.1	1245.6	1276.8	1339.2	1345.4	1332.9	1231.1
30°	1530.5	1505.5	1470.2	1405.7	1343.3	1349.6	1393.3	1453.6	1464.0	1447.3	1316.3
32.5°	1909.0	1884.0	1796.7	1655.3	1518.0	1472.3	1528.4	1586.6	1599.1	1580.4	1416.1
35°	2277.0	2270.8	2187.6	2017.1	1784.2	1657.3	1671.9	1746.8	1750.9	1728.0	1540.9
37.5°	2732.4	2709.6	2595.2	2403.9	2129.4	1902.7	1861.1	1931.8	1942.2	1915.2	1692.7
40°	3034.0	3025.6	2957.0	2821.9	2526.6	2241.7	2092.0	2160.6	2158.5	2119.0	1867.4
42.5°	3208.6	3212.8	3208.6	3144.2	2975.7	2649.3	2397.6	2401.8	2408.0	2366.4	2069.1
45°	3327.2	3327.2	3333.4	3385.4	3320.9	3135.9	2769.9	2676.3	2684.6	2620.1	2279.1
47.5°	3325.1	3337.6	3370.8	3491.4	3578.8	3589.2	3235.7	2996.5	2992.4	2894.6	2495.4
50°	3100.5	3092.2	3229.4	3499.8	3761.8	3963.5	3676.5	3335.5	3300.1	3179.5	2720.0
52.5°	2595.2	2622.2	2851.0	3248.1	3805.4	4217.2	4057.1	3705.6	3659.9	3462.3	2917.5
55°	2154.3	2183.5	2406.0	2794.8	3568.4	4306.6	4312.8	4098.7	4007.2	3707.7	3121.3
57.5°	1617.8	1674.0	2002.5	2368.5	3048.5	4084.1	4404.3	4475.0	4375.2	3944.8	3287.7
60°	1033.5	1066.8	1434.8	1886.1	2470.4	3501.8	4385.6	4693.4	4639.3	4161.0	3427.0
62.5°	675.8	694.5	948.2	1420.3	1881.9	2638.9	4163.1	4780.7	4780.7	4306.6	3531.0
64°	509.5	513.6	694.5	1154.1	1570.0	2056.6	3901.1	4753.7	4803.6	4393.9	3551.8
65°	403.4	405.5	542.7	958.6	1409.9	1686.5	3672.4	4695.5	4776.6	4427.2	3564.2
67.5°	282.8	289.0	351.4	553.1	1010.6	973.2	2722.0	4421.0	4520.8	4437.6	3547.6
70°	245.4	253.7	295.3	361.8	721.6	565.6	1447.3	3768.0	3886.5	4134.0	3302.2
72.5°	187.2	197.6	247.5	305.7	507.4	382.6	559.4	2676.3	2863.4	3196.2	2726.2
75°	135.2	139.3	183.0	249.5	355.6	295.3	241.2	1380.8	1570.0	1886.1	1694.8
77.5°	85.3	91.5	124.8	187.2	318.2	224.6	143.5	503.2	634.2	821.4	740.3
80°	49.9	52.0	74.9	128.9	214.2	166.4	91.5	178.8	216.3	305.7	197.6
82.5°	29.1	31.2	47.8	87.3	139.3	128.9	58.2	91.5	101.9	116.5	41.6
85°	10.4	10.4	33.3	52.0	74.9	64.5	33.3	47.8	52.0	64.5	12.5
87.5°	2.1	2.1	16.6	27.0	27.0	10.4	16.6	20.8	25.0	35.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9
2.5°	709.1	702.9	696.6	688.3	682.1	669.6	663.4	655.0	653.0	648.8	646.7
5°	725.7	715.3	700.8	680.0	667.5	648.8	636.3	623.8	621.8	617.6	615.5
7.5°	748.6	738.2	719.5	696.6	675.8	657.1	642.6	623.8	605.1	590.6	590.6
10°	786.0	773.6	748.6	727.8	702.9	663.4	594.7	532.3	492.8	467.9	459.6
12.5°	831.8	815.2	788.1	763.2	715.3	590.6	484.5	403.4	336.9	305.7	299.4
15°	879.6	865.1	838.0	800.6	657.1	492.8	353.5	228.7	164.3	135.2	139.3
17.5°	931.6	910.8	879.6	804.8	578.1	368.1	189.2	116.5	99.8	95.7	95.7
20°	985.7	958.6	927.4	759.0	476.2	212.1	108.1	87.3	81.1	74.9	76.9
22.5°	1043.9	1010.6	962.8	690.4	341.0	114.4	83.2	70.7	62.4	60.3	60.3
25°	1106.3	1058.5	998.1	611.4	197.6	87.3	68.6	56.1	49.9	47.8	45.7
27.5°	1172.8	1112.5	1006.5	507.4	112.3	72.8	54.1	43.7	37.4	35.4	35.4
30°	1233.1	1166.6	987.8	376.4	85.3	60.3	43.7	33.3	29.1	29.1	29.1
32.5°	1314.2	1226.9	929.5	235.0	68.6	47.8	33.3	27.0	22.9	22.9	22.9
35°	1420.3	1316.3	871.3	124.8	56.1	39.5	27.0	20.8	18.7	18.7	18.7
37.5°	1565.8	1434.8	819.3	79.0	45.7	31.2	20.8	16.6	14.6	14.6	14.6
40°	1715.6	1576.2	746.5	60.3	37.4	25.0	16.6	12.5	10.4	10.4	12.5
42.5°	1902.7	1740.5	663.4	52.0	31.2	20.8	12.5	8.3	6.2	8.3	8.3
45°	2092.0	1913.1	546.9	43.7	27.0	16.6	8.3	4.2	4.2	6.2	6.2
47.5°	2287.4	2096.1	424.2	37.4	22.9	12.5	6.2	2.1	2.1	4.2	4.2
50°	2489.1	2277.0	316.1	33.3	18.7	10.4	4.2	2.1	0.0	2.1	2.1
52.5°	2690.8	2451.7	245.4	29.1	16.6	8.3	2.1	0.0	0.0	0.0	2.1
55°	2878.0	2609.7	195.5	25.0	14.6	6.2	2.1	0.0	0.0	0.0	0.0
57.5°	3036.0	2726.2	156.0	22.9	12.5	4.2	2.1	0.0	0.0	0.0	0.0
60°	3185.8	2817.7	120.6	18.7	10.4	4.2	2.1	0.0	0.0	0.0	0.0
62.5°	3291.8	2853.0	97.7	16.6	8.3	4.2	0.0	0.0	0.0	0.0	0.0
64°	3337.6	2857.2	85.3	14.6	8.3	4.2	2.1	0.0	0.0	0.0	0.0
65°	3364.6	2844.7	79.0	14.6	8.3	4.2	2.1	0.0	0.0	0.0	0.0
67.5°	3370.8	2776.1	60.3	12.5	6.2	2.1	2.1	0.0	0.0	0.0	0.0
70°	3187.8	2537.0	43.7	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	2663.8	1938.1	29.1	6.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0
75°	1663.6	838.0	16.6	6.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	688.3	253.7	10.4	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
80°	158.0	60.3	4.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	37.4	10.4	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	8.3	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	2.1	2.1	2.1	2.1	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)