

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: P595210

Luminaire Tested: **IST-PA1D-735-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595210
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-PA1D-735-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 5471 lumens
Efficiency: N/A
Efficacy: 87.7 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

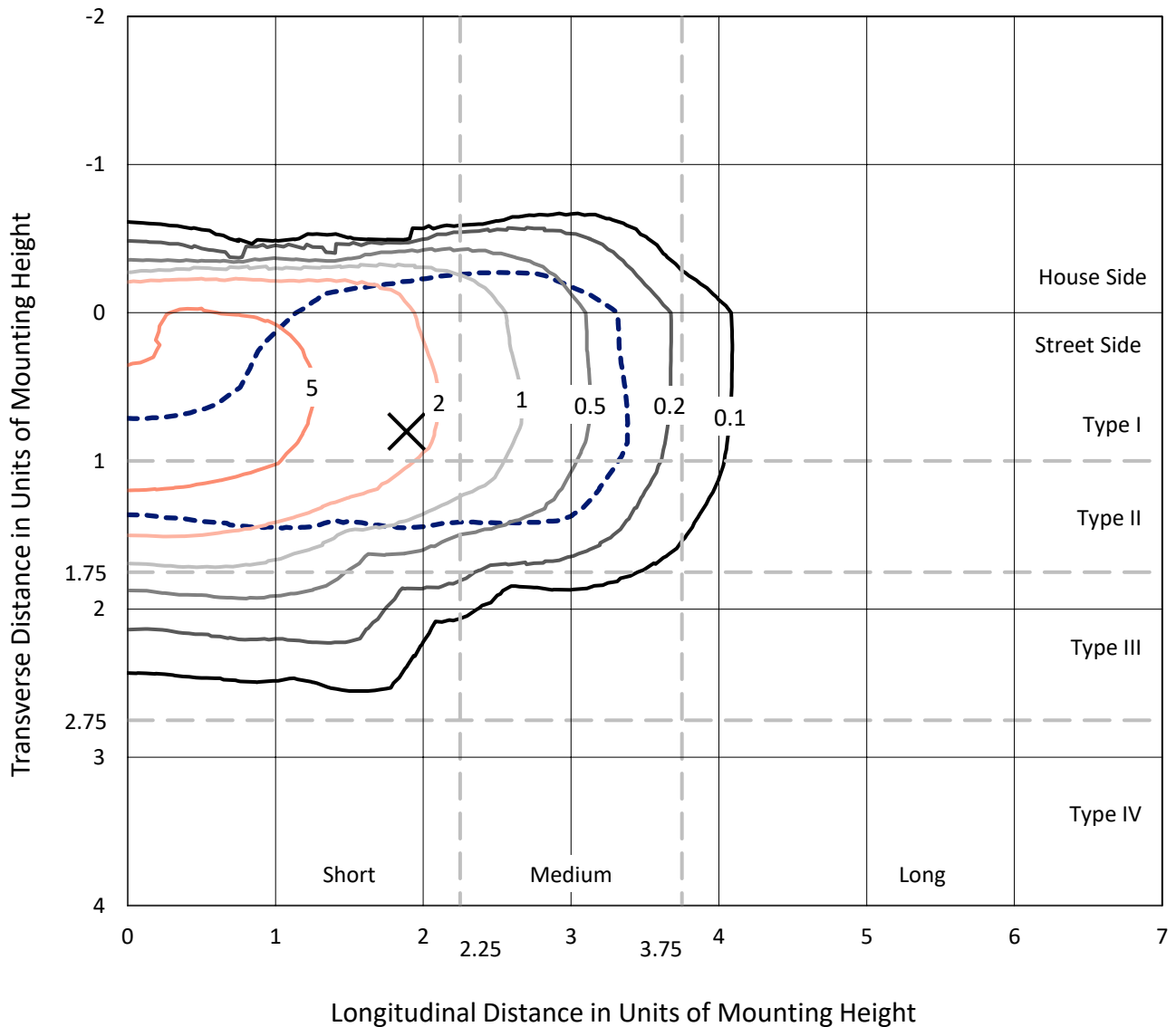
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

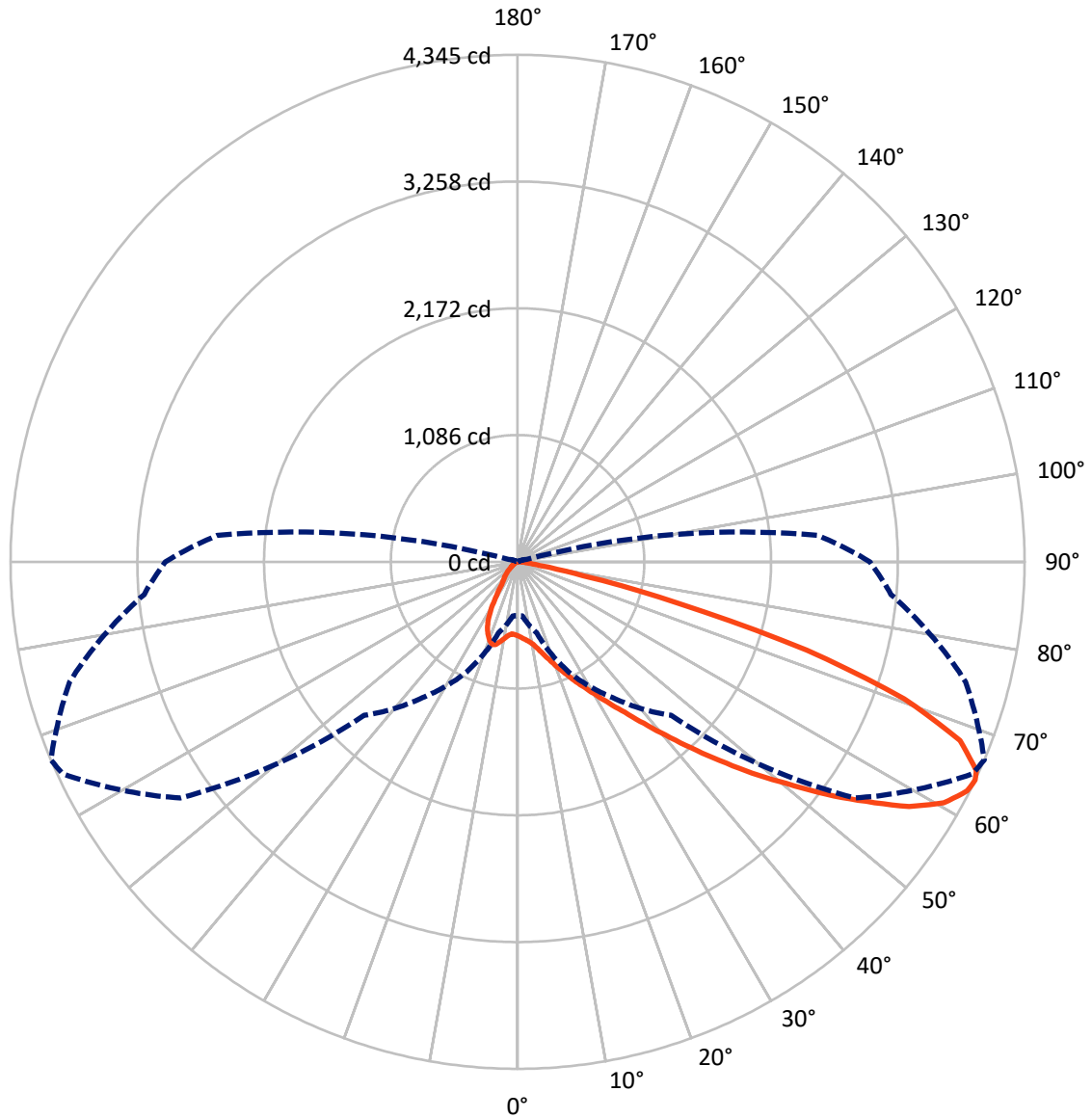
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.4 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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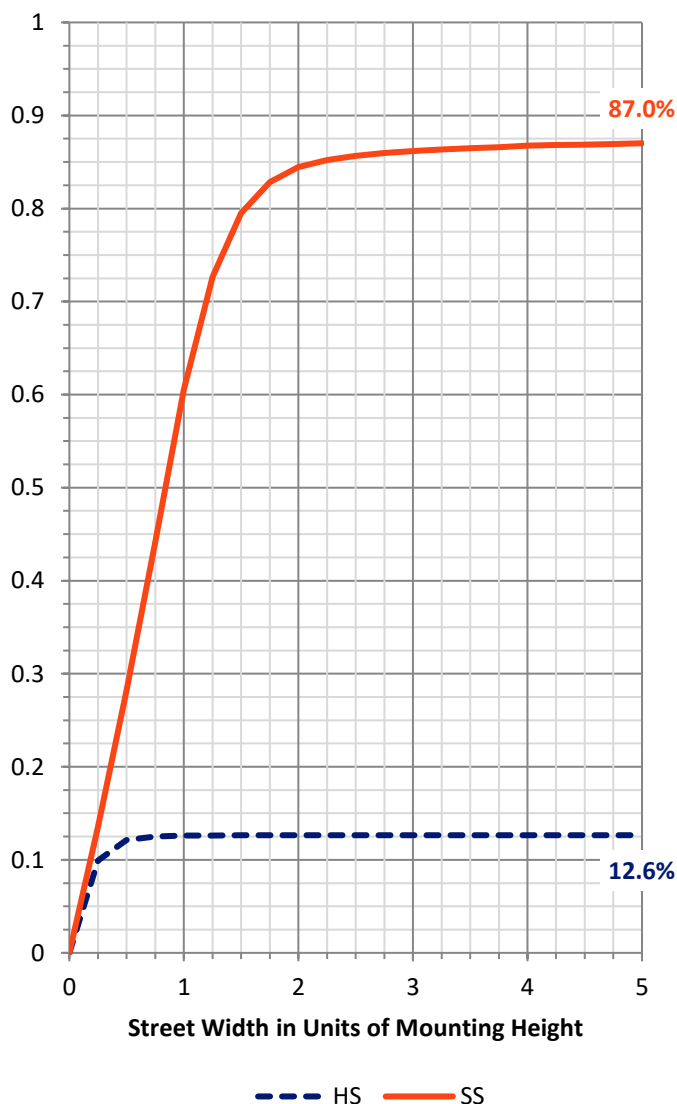
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	699.9	0.0	699.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4771.1	0.0	4771.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	5471.0	0.0	5471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	1.1
10°-20°	178.0	3.3
20°-30°	322.9	5.9
30°-40°	618.6	11.3
40°-50°	1140.2	20.8
50°-60°	1472.7	26.9
60°-70°	1206.3	22.0
70°-80°	443.4	8.1
80°-90°	28.6	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°	5471.0	100.0
0°-180°	5471.0	100.0

Coefficient of Utilization



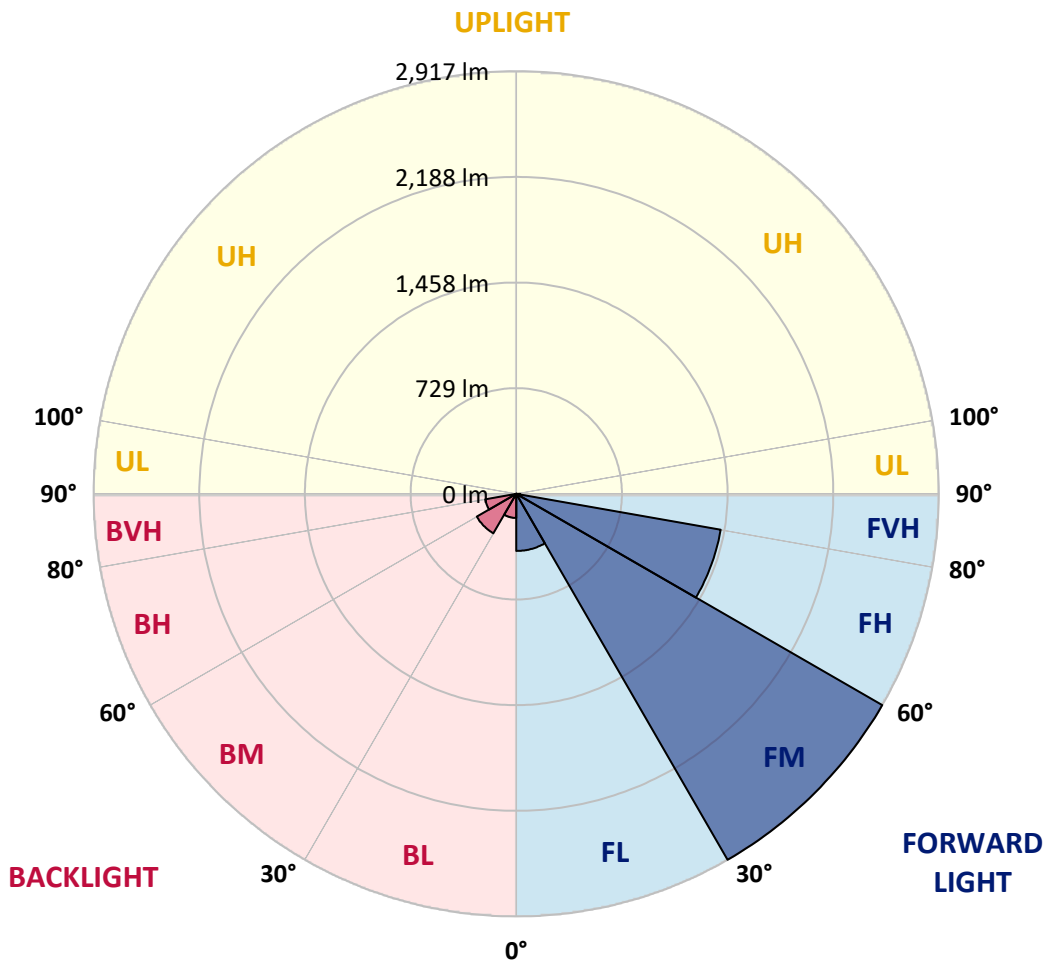
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	394.4	7.2			
FM (30°-60°)	2916.8	53.3			
FH (60°-80°)	1432.6	26.2			G1/1800
FVH (80°-90°)	27.3	0.5			G1/100
BL (0°-30°)	166.8	3.0	B1/500		
BM (30°-60°)	314.7	5.8	B1/1000		
BH (60°-80°)	217.1	4.0	B1/500		G1/500
BVH (80°-90°)	1.3	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°	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7
2.5°	658.3	658.3	662.0	660.2	660.2	656.4	650.7	652.6	650.7	648.9	643.2
5°	647.0	648.9	650.7	654.5	662.0	665.8	665.8	667.7	667.7	665.8	658.3
7.5°	641.3	645.1	648.9	652.6	662.0	667.7	677.1	688.4	688.4	690.2	682.7
10°	662.0	665.8	671.4	677.1	686.5	695.9	703.4	716.6	716.6	720.3	718.5
12.5°	705.3	705.3	707.2	710.9	724.1	735.4	748.5	759.8	761.7	763.6	758.0
15°	758.0	758.0	759.8	759.8	767.4	784.3	808.7	820.0	818.1	816.3	805.0
17.5°	818.1	818.1	818.1	820.0	823.8	833.2	861.4	884.0	882.1	880.2	857.6
20°	874.6	878.3	882.1	884.0	887.7	895.3	925.3	951.7	957.3	949.8	910.3
22.5°	938.5	940.4	942.3	947.9	957.3	961.1	991.2	1030.7	1036.3	1026.9	974.2
25°	1002.5	1006.2	1011.9	1019.4	1028.8	1047.6	1068.3	1120.9	1126.6	1115.3	1043.8
27.5°	1143.5	1141.6	1124.7	1111.5	1113.4	1126.6	1154.8	1211.2	1216.9	1205.6	1113.4
30°	1384.3	1361.7	1329.7	1271.4	1215.0	1220.6	1260.1	1314.7	1324.1	1309.0	1190.5
32.5°	1726.6	1704.0	1625.0	1497.1	1373.0	1331.6	1382.4	1435.0	1446.3	1429.4	1280.8
35°	2059.5	2053.8	1978.6	1824.4	1613.7	1499.0	1512.1	1579.9	1583.6	1562.9	1393.7
37.5°	2471.3	2450.7	2347.2	2174.2	1925.9	1720.9	1683.3	1747.2	1756.6	1732.2	1531.0
40°	2744.1	2736.5	2674.5	2552.2	2285.1	2027.5	1892.1	1954.1	1952.2	1916.5	1688.9
42.5°	2902.0	2905.8	2902.0	2843.7	2691.4	2396.1	2168.5	2172.3	2177.9	2140.3	1871.4
45°	3009.2	3009.2	3014.9	3061.9	3003.6	2836.2	2505.2	2420.6	2428.1	2369.8	2061.3
47.5°	3007.4	3018.6	3048.7	3157.8	3236.8	3246.2	2926.5	2710.2	2706.4	2618.0	2256.9
50°	2804.2	2796.7	2920.8	3165.4	3402.3	3584.8	3325.2	3016.8	2984.8	2875.7	2460.1
52.5°	2347.2	2371.7	2578.5	2937.8	3441.8	3814.2	3669.4	3351.5	3310.2	3131.5	2638.7
55°	1948.5	1974.8	2176.1	2527.8	3227.4	3895.1	3900.7	3707.0	3624.3	3353.4	2823.0
57.5°	1463.2	1514.0	1811.2	2142.2	2757.2	3693.8	3983.5	4047.4	3957.2	3567.8	2973.5
60°	934.7	964.8	1297.7	1705.9	2234.4	3167.2	3966.6	4244.9	4196.0	3763.4	3099.5
62.5°	611.3	628.2	857.6	1284.6	1702.1	2386.7	3765.3	4323.9	4323.9	3895.1	3193.6
64°	460.8	464.6	628.2	1043.8	1420.0	1860.1	3528.3	4299.5	4344.6	3974.1	3212.4
65°	364.9	366.8	490.9	867.0	1275.2	1525.3	3321.5	4246.8	4320.1	4004.2	3223.7
67.5°	255.8	261.4	317.9	500.3	914.1	880.2	2461.9	3998.5	4088.8	4013.6	3208.6
70°	221.9	229.5	267.1	327.3	652.6	511.6	1309.0	3408.0	3515.2	3739.0	2986.7
72.5°	169.3	178.7	223.8	276.5	458.9	346.1	505.9	2420.6	2589.8	2890.8	2465.7
75°	122.3	126.0	165.5	225.7	321.6	267.1	218.2	1248.8	1420.0	1705.9	1532.8
77.5°	77.1	82.8	112.8	169.3	287.8	203.1	129.8	455.1	573.6	742.9	669.6
80°	45.1	47.0	67.7	116.6	193.7	150.5	82.8	161.7	195.6	276.5	178.7
82.5°	26.3	28.2	43.3	79.0	126.0	116.6	52.7	82.8	92.2	105.3	37.6
85°	9.4	9.4	30.1	47.0	67.7	58.3	30.1	43.3	47.0	58.3	11.3
87.5°	1.9	1.9	15.0	24.5	24.5	9.4	15.0	18.8	22.6	32.0	3.8
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°	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7	635.7
2.5°	641.3	635.7	630.1	622.5	616.9	605.6	600.0	592.4	590.6	586.8	584.9
5°	656.4	647.0	633.8	615.0	603.7	586.8	575.5	564.2	562.4	558.6	556.7
7.5°	677.1	667.7	650.7	630.1	611.3	594.3	581.2	564.2	547.3	534.1	534.1
10°	710.9	699.6	677.1	658.3	635.7	600.0	537.9	481.5	445.7	423.2	415.7
12.5°	752.3	737.3	712.8	690.2	647.0	534.1	438.2	364.9	304.7	276.5	270.8
15°	795.6	782.4	758.0	724.1	594.3	445.7	319.7	206.9	148.6	122.3	126.0
17.5°	842.6	823.8	795.6	727.9	522.9	332.9	171.2	105.3	90.3	86.5	86.5
20°	891.5	867.0	838.8	686.5	430.7	191.8	97.8	79.0	73.4	67.7	69.6
22.5°	944.2	914.1	870.8	624.4	308.4	103.4	75.2	63.9	56.4	54.5	54.5
25°	1000.6	957.3	902.8	552.9	178.7	79.0	62.1	50.8	45.1	43.3	41.4
27.5°	1060.8	1006.2	910.3	458.9	101.6	65.8	48.9	39.5	33.9	32.0	32.0
30°	1115.3	1055.1	893.4	340.4	77.1	54.5	39.5	30.1	26.3	26.3	26.3
32.5°	1188.7	1109.7	840.7	212.5	62.1	43.3	30.1	24.5	20.7	20.7	20.7
35°	1284.6	1190.5	788.0	112.8	50.8	35.7	24.5	18.8	16.9	16.9	16.9
37.5°	1416.2	1297.7	741.0	71.5	41.4	28.2	18.8	15.0	13.2	13.2	13.2
40°	1551.6	1425.6	675.2	54.5	33.9	22.6	15.0	11.3	9.4	9.4	11.3
42.5°	1720.9	1574.2	600.0	47.0	28.2	18.8	11.3	7.5	5.6	7.5	7.5
45°	1892.1	1730.3	494.6	39.5	24.5	15.0	7.5	3.8	3.8	5.6	5.6
47.5°	2068.9	1895.8	383.7	33.9	20.7	11.3	5.6	1.9	1.9	3.8	3.8
50°	2251.3	2059.5	285.9	30.1	16.9	9.4	3.8	1.9	0.0	1.9	1.9
52.5°	2433.7	2217.4	221.9	26.3	15.0	7.5	1.9	0.0	0.0	0.0	1.9
55°	2603.0	2360.4	176.8	22.6	13.2	5.6	1.9	0.0	0.0	0.0	0.0
57.5°	2745.9	2465.7	141.1	20.7	11.3	3.8	1.9	0.0	0.0	0.0	0.0
60°	2881.4	2548.5	109.1	16.9	9.4	3.8	1.9	0.0	0.0	0.0	0.0
62.5°	2977.3	2580.4	88.4	15.0	7.5	3.8	0.0	0.0	0.0	0.0	0.0
64°	3018.6	2584.2	77.1	13.2	7.5	3.8	1.9	0.0	0.0	0.0	0.0
65°	3043.1	2572.9	71.5	13.2	7.5	3.8	1.9	0.0	0.0	0.0	0.0
67.5°	3048.7	2510.8	54.5	11.3	5.6	1.9	1.9	0.0	0.0	0.0	0.0
70°	2883.2	2294.5	39.5	7.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	2409.3	1752.9	26.3	5.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0
75°	1504.6	758.0	15.0	5.6	1.9	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	622.5	229.5	9.4	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	142.9	54.5	3.8	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	33.9	9.4	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	7.5	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.9	1.9	1.9	1.9	1.9	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)