

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: P595201

Luminaire Tested: **IST-PA1D-730-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595201
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-730-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 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: 5348 lumens
Efficiency: N/A
Efficacy: 85.7 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

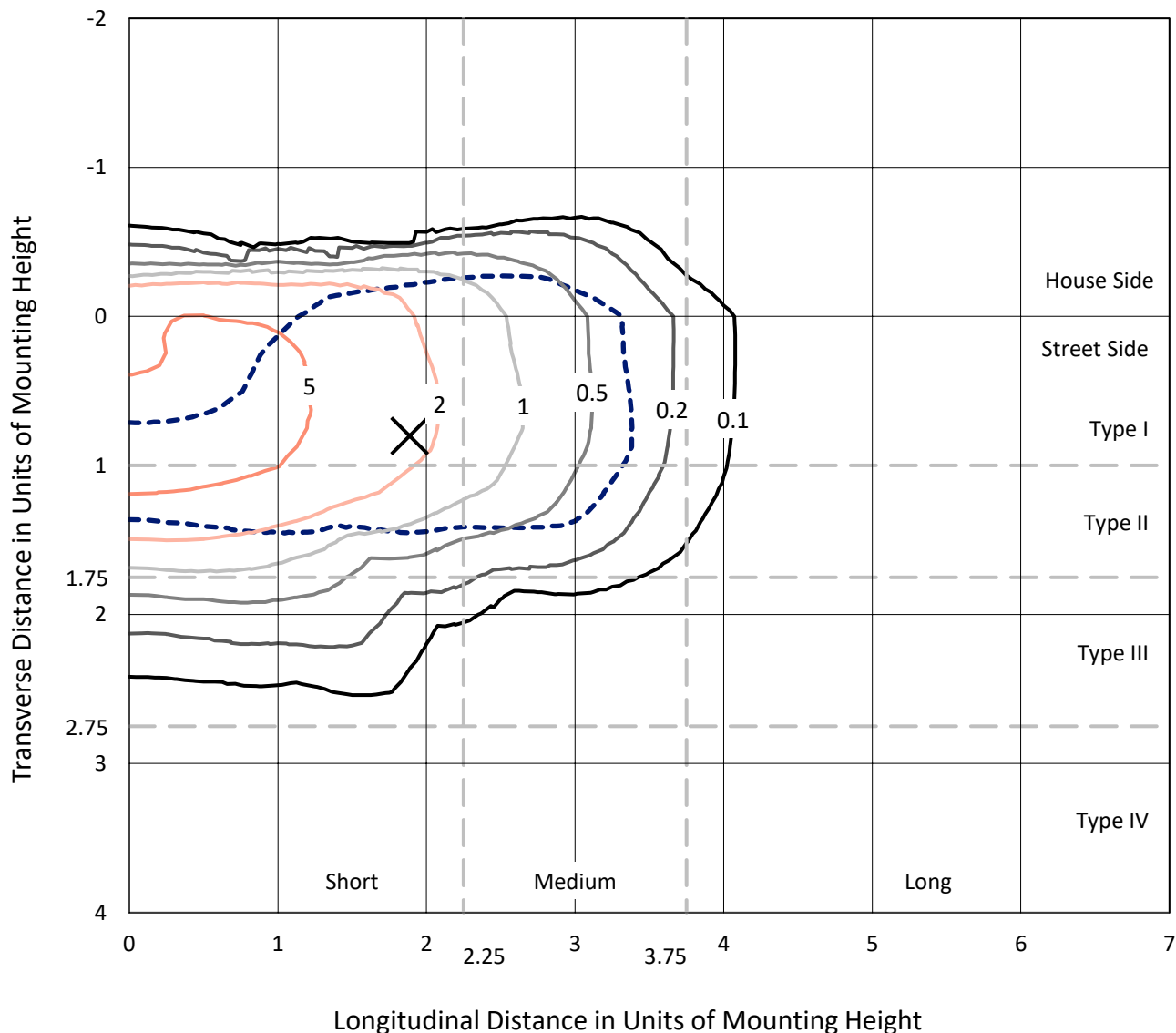
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

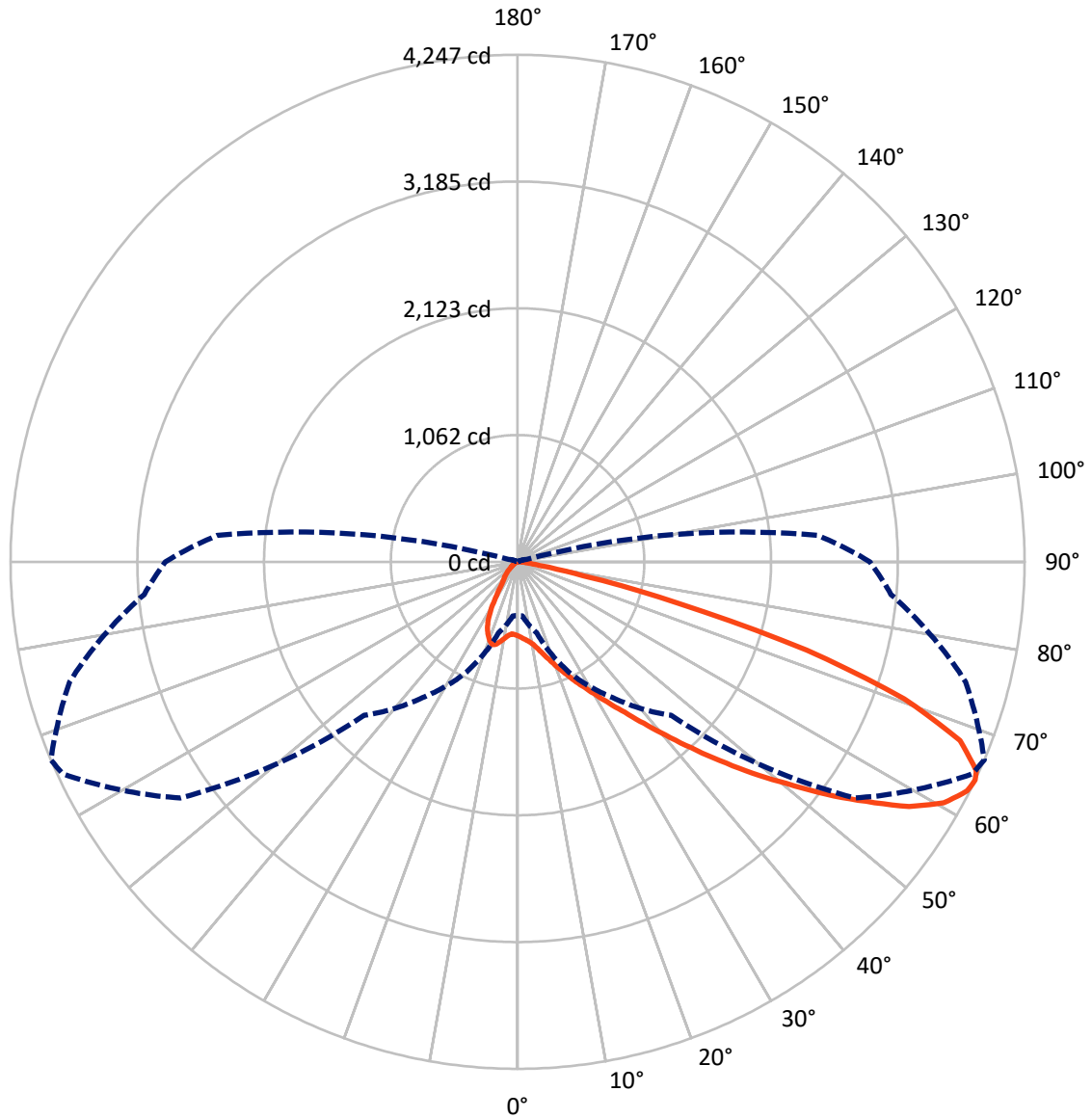
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.2 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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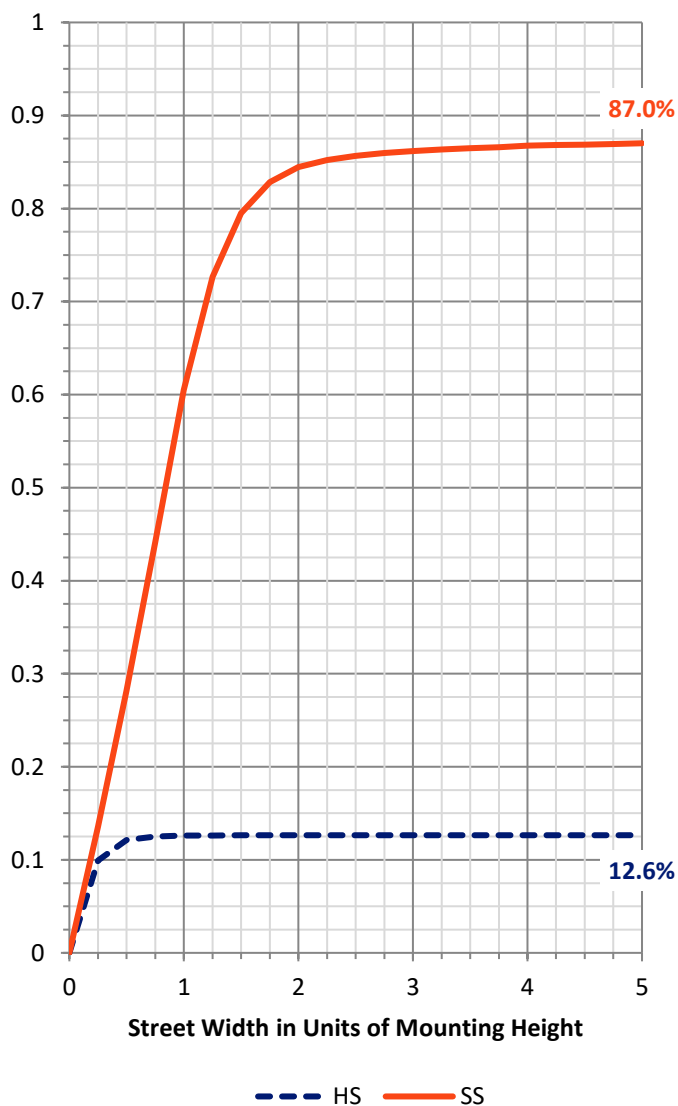
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	684.1	0.0	684.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4663.9	0.0	4663.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	5348.0	0.0	5348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	1.1
10°-20°	174.0	3.3
20°-30°	315.7	5.9
30°-40°	604.7	11.3
40°-50°	1114.6	20.8
50°-60°	1439.5	26.9
60°-70°	1179.1	22.0
70°-80°	433.5	8.1
80°-90°	27.9	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°	5348.0	100.0
0°-180°	5348.0	100.0

Coefficient of Utilization

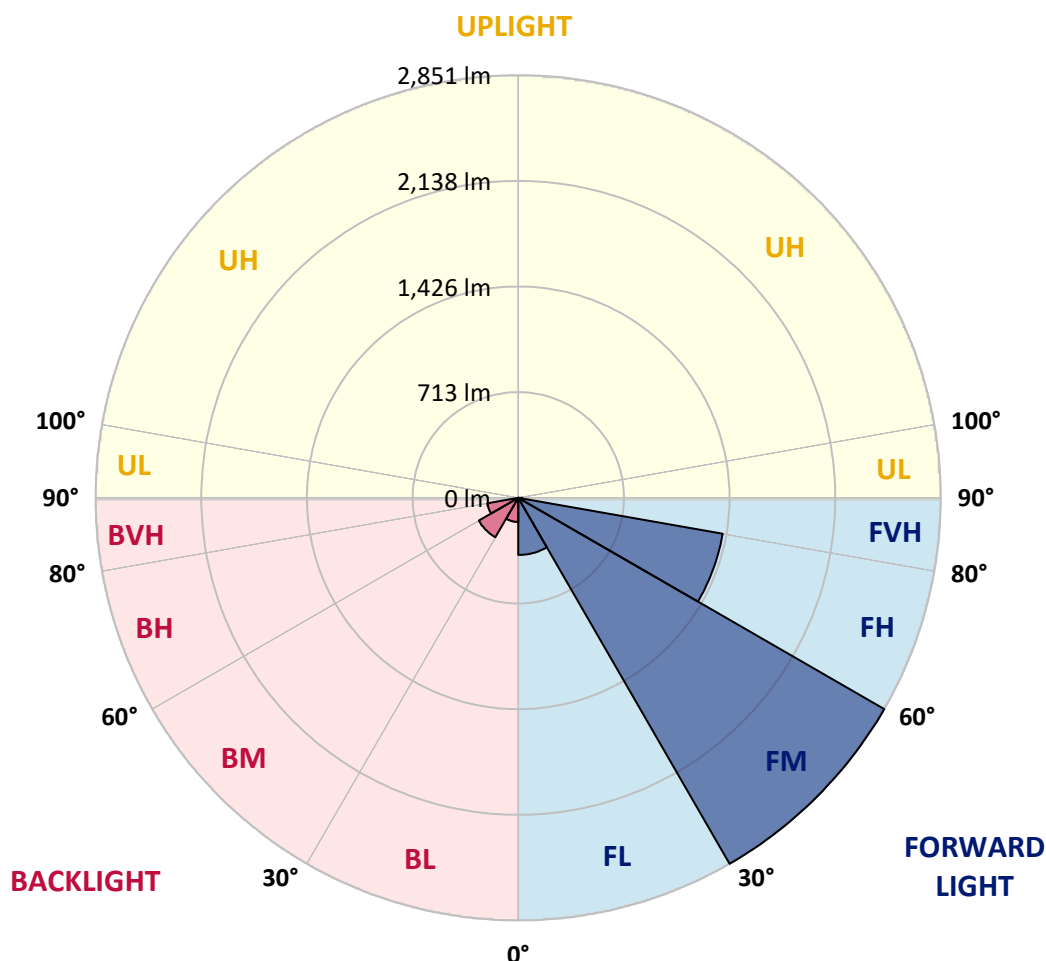


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.6	7.2			
FM (30°-60°)	2851.3	53.3			
FH (60°-80°)	1400.4	26.2			G1/1800
FVH (80°-90°)	26.7	0.5			G1/100
BL (0°-30°)	163.0	3.0	B1/500		
BM (30°-60°)	307.6	5.8	B1/1000		
BH (60°-80°)	212.2	4.0	B1/500		G1/500
BVH (80°-90°)	1.2	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°	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4
2.5°	643.5	643.5	647.2	645.3	645.3	641.6	636.1	638.0	636.1	634.3	628.8
5°	632.4	634.3	636.1	639.8	647.2	650.8	650.8	652.7	652.7	650.8	643.5
7.5°	626.9	630.6	634.3	638.0	647.2	652.7	661.9	672.9	672.9	674.7	667.4
10°	647.2	650.8	656.3	661.9	671.1	680.2	687.6	700.5	700.5	704.1	702.3
12.5°	689.4	689.4	691.3	695.0	707.8	718.9	731.7	742.8	744.6	746.4	740.9
15°	740.9	740.9	742.8	742.8	750.1	766.7	790.6	801.6	799.7	797.9	786.9
17.5°	799.7	799.7	799.7	801.6	805.3	814.5	842.0	864.1	862.3	860.4	838.4
20°	854.9	858.6	862.3	864.1	867.8	875.1	904.5	930.3	935.8	928.4	889.8
22.5°	917.4	919.2	921.1	926.6	935.8	939.5	968.9	1007.5	1013.0	1003.8	952.3
25°	979.9	983.6	989.1	996.5	1005.7	1024.0	1044.3	1095.7	1101.3	1090.2	1020.4
27.5°	1117.8	1116.0	1099.4	1086.6	1088.4	1101.3	1128.8	1184.0	1189.5	1178.5	1088.4
30°	1353.1	1331.1	1299.8	1242.8	1187.7	1193.2	1231.8	1285.1	1294.3	1279.6	1163.8
32.5°	1687.7	1665.7	1588.5	1463.4	1342.1	1301.7	1351.3	1402.8	1413.8	1397.3	1252.0
35°	2013.2	2007.6	1934.1	1783.3	1577.4	1465.3	1478.1	1544.3	1548.0	1527.8	1362.3
37.5°	2415.8	2395.6	2294.4	2125.3	1882.6	1682.2	1645.5	1708.0	1717.2	1693.3	1496.5
40°	2682.4	2675.0	2614.3	2494.8	2233.8	1981.9	1849.5	1910.2	1908.4	1873.4	1651.0
42.5°	2836.8	2840.5	2836.8	2779.8	2630.9	2342.2	2119.8	2123.5	2129.0	2092.2	1829.3
45°	2941.6	2941.6	2947.1	2993.1	2936.1	2772.4	2448.9	2366.1	2373.5	2316.5	2015.0
47.5°	2939.8	2950.8	2980.2	3086.8	3164.0	3173.2	2860.7	2649.3	2645.6	2559.2	2206.2
50°	2741.2	2733.8	2855.2	3094.2	3325.8	3504.2	3250.5	2948.9	2917.7	2811.1	2404.8
52.5°	2294.4	2318.3	2520.6	2871.7	3364.4	3728.5	3586.9	3276.2	3235.8	3061.1	2579.4
55°	1904.7	1930.4	2127.1	2470.9	3154.9	3807.5	3813.0	3623.7	3542.8	3278.0	2759.6
57.5°	1430.3	1480.0	1770.5	2094.0	2695.2	3610.8	3893.9	3956.4	3868.2	3487.6	2906.7
60°	913.7	943.1	1268.6	1667.5	2184.1	3096.0	3877.4	4149.5	4101.7	3678.8	3029.8
62.5°	597.5	614.1	838.4	1255.7	1663.8	2333.0	3680.7	4226.7	4226.7	3807.5	3121.8
64°	450.4	454.1	614.1	1020.4	1388.1	1818.3	3449.0	4202.8	4246.9	3884.7	3140.1
65°	356.7	358.5	479.8	847.5	1246.5	1491.0	3246.8	4151.3	4223.0	3914.2	3151.2
67.5°	250.0	255.6	310.7	489.0	893.5	860.4	2406.6	3908.6	3996.9	3923.3	3136.5
70°	216.9	224.3	261.1	319.9	638.0	500.1	1279.6	3331.4	3436.1	3654.9	2919.5
72.5°	165.5	174.7	218.8	270.3	448.6	338.3	494.6	2366.1	2531.6	2825.8	2410.3
75°	119.5	123.2	161.8	220.6	314.4	261.1	213.3	1220.8	1388.1	1667.5	1498.4
77.5°	75.4	80.9	110.3	165.5	281.3	198.6	126.9	444.9	560.7	726.2	654.5
80°	44.1	46.0	66.2	114.0	189.4	147.1	80.9	158.1	191.2	270.3	174.7
82.5°	25.7	27.6	42.3	77.2	123.2	114.0	51.5	80.9	90.1	103.0	36.8
85°	9.2	9.2	29.4	46.0	66.2	57.0	29.4	42.3	46.0	57.0	11.0
87.5°	1.8	1.8	14.7	23.9	23.9	9.2	14.7	18.4	22.1	31.3	3.7
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°	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4
2.5°	626.9	621.4	615.9	608.5	603.0	592.0	586.5	579.1	577.3	573.6	571.8
5°	641.6	632.4	619.6	601.2	590.2	573.6	562.6	551.5	549.7	546.0	544.2
7.5°	661.9	652.7	636.1	615.9	597.5	581.0	568.1	551.5	535.0	522.1	522.1
10°	695.0	683.9	661.9	643.5	621.4	586.5	525.8	470.7	435.7	413.7	406.3
12.5°	735.4	720.7	696.8	674.7	632.4	522.1	428.4	356.7	297.8	270.3	264.7
15°	777.7	764.8	740.9	707.8	581.0	435.7	312.5	202.2	145.2	119.5	123.2
17.5°	823.6	805.3	777.7	711.5	511.1	325.4	167.3	103.0	88.2	84.6	84.6
20°	871.4	847.5	820.0	671.1	421.0	187.5	95.6	77.2	71.7	66.2	68.0
22.5°	922.9	893.5	851.2	610.4	301.5	101.1	73.5	62.5	55.2	53.3	53.3
25°	978.1	935.8	882.5	540.5	174.7	77.2	60.7	49.6	44.1	42.3	40.4
27.5°	1036.9	983.6	889.8	448.6	99.3	64.3	47.8	38.6	33.1	31.3	31.3
30°	1090.2	1031.4	873.3	332.8	75.4	53.3	38.6	29.4	25.7	25.7	25.7
32.5°	1161.9	1084.7	821.8	207.7	60.7	42.3	29.4	23.9	20.2	20.2	20.2
35°	1255.7	1163.8	770.3	110.3	49.6	34.9	23.9	18.4	16.5	16.5	16.5
37.5°	1384.4	1268.6	724.4	69.9	40.4	27.6	18.4	14.7	12.9	12.9	12.9
40°	1516.8	1393.6	660.0	53.3	33.1	22.1	14.7	11.0	9.2	9.2	11.0
42.5°	1682.2	1538.8	586.5	46.0	27.6	18.4	11.0	7.4	5.5	7.4	7.4
45°	1849.5	1691.4	483.5	38.6	23.9	14.7	7.4	3.7	3.7	5.5	5.5
47.5°	2022.3	1853.2	375.1	33.1	20.2	11.0	5.5	1.8	1.8	3.7	3.7
50°	2200.7	2013.2	279.5	29.4	16.5	9.2	3.7	1.8	0.0	1.8	1.8
52.5°	2379.0	2167.6	216.9	25.7	14.7	7.4	1.8	0.0	0.0	0.0	1.8
55°	2544.5	2307.3	172.8	22.1	12.9	5.5	1.8	0.0	0.0	0.0	0.0
57.5°	2684.2	2410.3	137.9	20.2	11.0	3.7	1.8	0.0	0.0	0.0	0.0
60°	2816.6	2491.2	106.6	16.5	9.2	3.7	1.8	0.0	0.0	0.0	0.0
62.5°	2910.3	2522.4	86.4	14.7	7.4	3.7	0.0	0.0	0.0	0.0	0.0
64°	2950.8	2526.1	75.4	12.9	7.4	3.7	1.8	0.0	0.0	0.0	0.0
65°	2974.7	2515.1	69.9	12.9	7.4	3.7	1.8	0.0	0.0	0.0	0.0
67.5°	2980.2	2454.4	53.3	11.0	5.5	1.8	1.8	0.0	0.0	0.0	0.0
70°	2818.4	2243.0	38.6	7.4	3.7	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	2355.1	1713.5	25.7	5.5	3.7	1.8	0.0	0.0	0.0	0.0	0.0
75°	1470.8	740.9	14.7	5.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	608.5	224.3	9.2	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0
80°	139.7	53.3	3.7	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	33.1	9.2	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	7.4	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.8	1.8	1.8	1.8	1.8	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)