

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: P595259

Luminaire Tested: **IST-PA1D-830-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-830-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4752 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

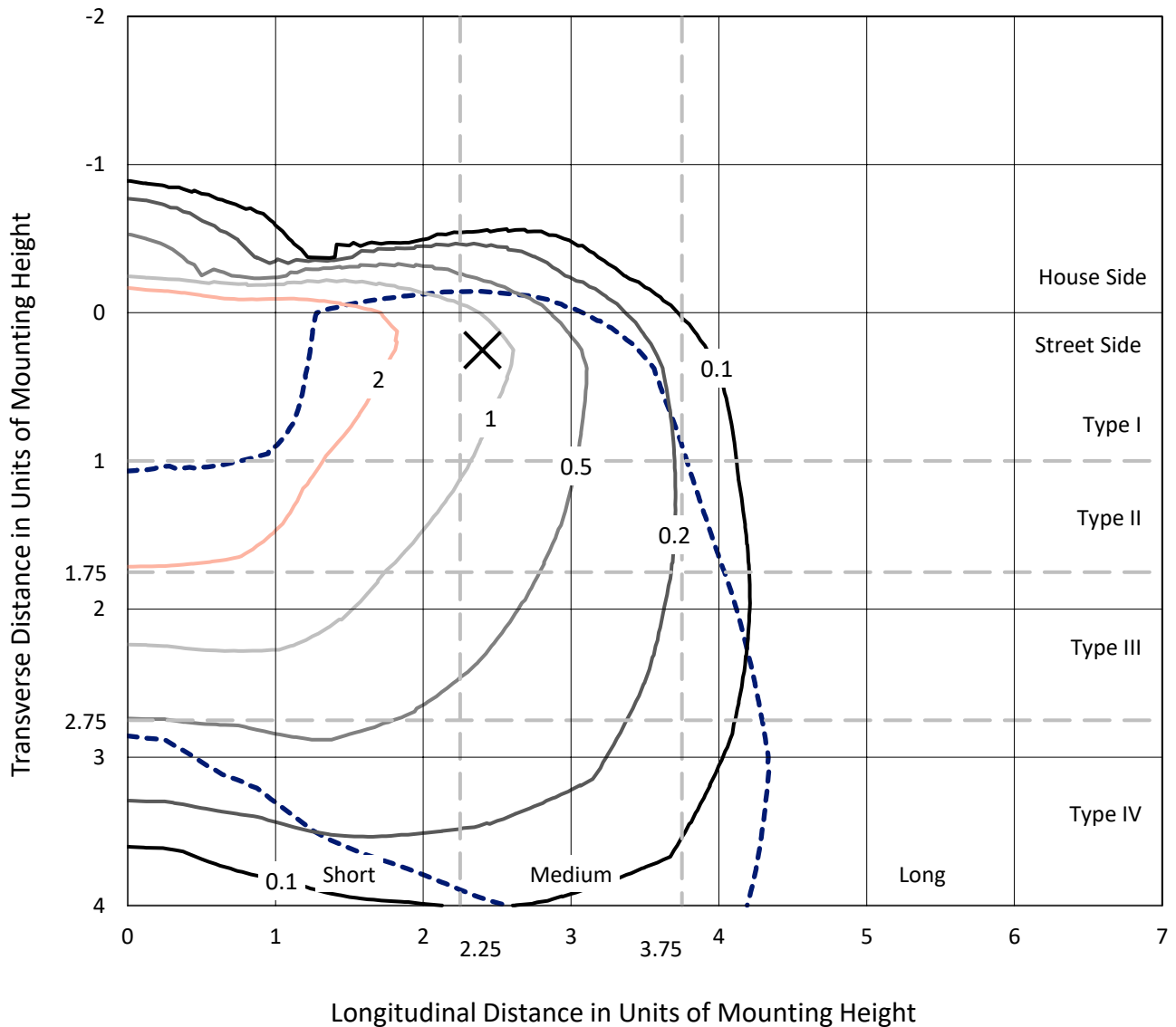
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

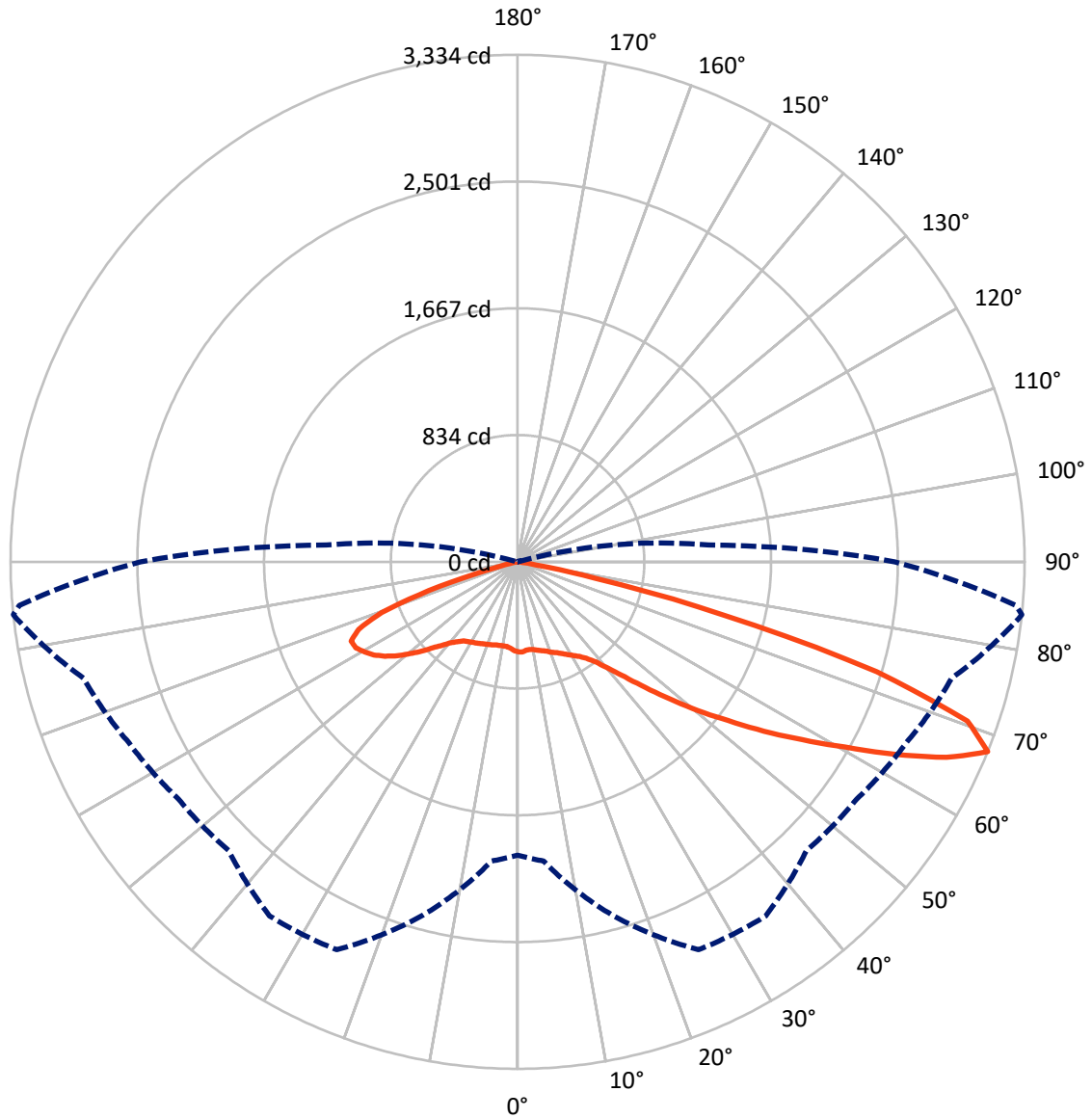
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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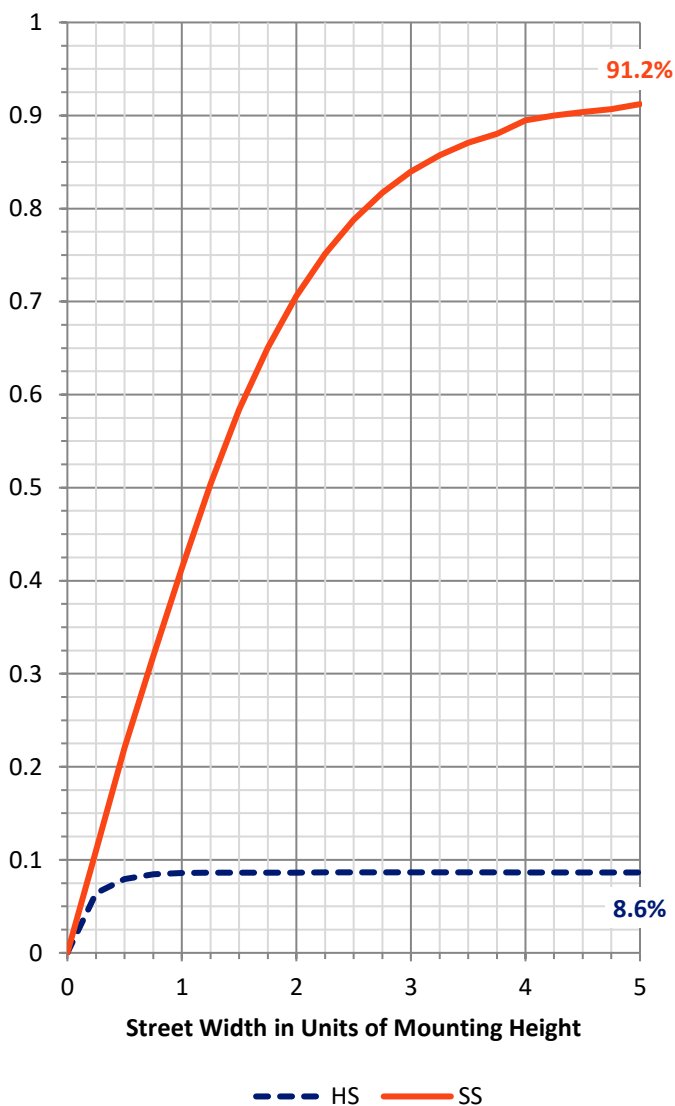
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	413.7	0.0	413.7
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	4338.3	0.0	4338.3
	% Fixture	91.3	0.0	91.3
Total	Lumens	4752.0	0.0	4752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.1
10°-20°	138.9	2.9
20°-30°	222.4	4.7
30°-40°	320.0	6.7
40°-50°	549.3	11.6
50°-60°	959.7	20.2
60°-70°	1374.3	28.9
70°-80°	1033.0	21.7
80°-90°	101.4	2.1
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°	4752.0	100.0
0°-180°	4752.0	100.0

Coefficient of Utilization

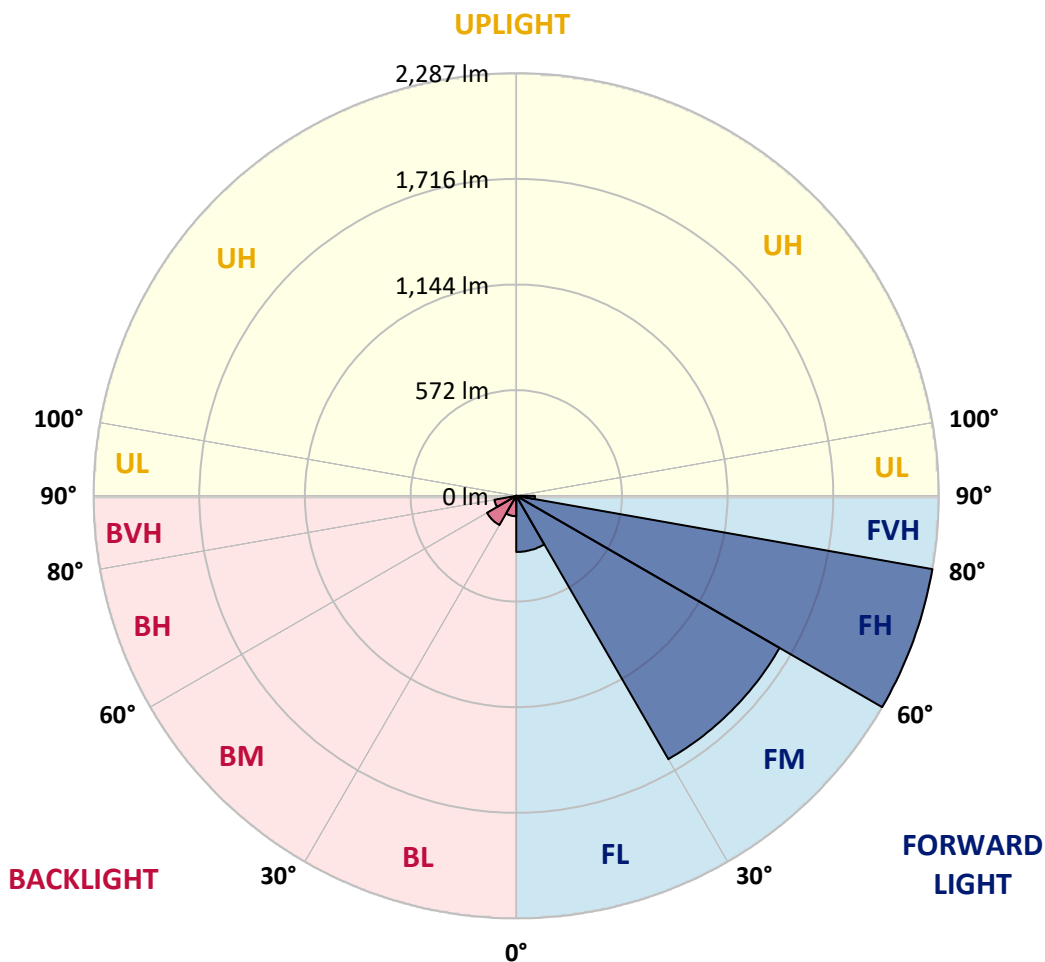


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.8	6.4			
FM (30°-60°)	1646.0	34.6			
FH (60°-80°)	2287.3	48.1			G2/5000
FVH (80°-90°)	101.1	2.1			G2/225
BL (0°-30°)	110.5	2.3	B1/500		
BM (30°-60°)	183.0	3.9	B0/220		
BH (60°-80°)	119.9	2.5	B1/500		G1/500
BVH (80°-90°)	0.3	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
2.5°	625.7	628.9	630.5	622.5	622.5	616.1	606.5	603.3	598.5	593.6	592.0
5°	657.8	662.6	661.0	651.4	646.6	633.8	620.9	608.1	595.3	584.0	584.0
7.5°	694.7	696.3	691.5	675.5	665.8	648.2	628.9	614.5	598.5	582.4	579.2
10°	726.8	725.2	718.8	702.7	685.1	662.6	641.8	625.7	606.5	587.2	585.6
12.5°	749.3	750.9	742.9	720.4	702.7	677.1	656.2	640.2	617.7	596.9	592.0
15°	768.5	773.3	763.7	741.3	715.6	693.1	677.1	656.2	630.5	606.5	603.3
17.5°	786.2	787.8	779.8	754.1	730.0	710.8	693.1	673.9	648.2	617.7	614.5
20°	795.8	800.6	795.8	763.7	741.3	726.8	712.4	693.1	664.2	635.4	632.2
22.5°	802.2	807.0	805.4	770.1	750.9	739.7	726.8	709.2	681.9	648.2	645.0
25°	805.4	808.6	811.9	776.6	760.5	755.7	744.5	728.4	702.7	667.5	664.2
27.5°	810.2	813.5	816.7	784.6	778.2	773.3	770.1	757.3	726.8	689.9	685.1
30°	818.3	823.1	826.3	799.0	799.0	803.8	803.8	786.2	752.5	714.0	710.8
32.5°	827.9	829.5	835.9	813.5	821.5	832.7	829.5	811.9	776.6	741.3	736.4
35°	853.6	853.6	864.8	835.9	845.5	855.2	858.4	845.5	813.5	778.2	776.6
37.5°	916.1	916.1	925.8	879.2	877.6	887.3	898.5	898.5	866.4	834.3	831.1
40°	1057.3	1057.3	1057.3	949.8	932.2	943.4	961.1	970.7	943.4	921.0	921.0
42.5°	1293.2	1294.8	1270.7	1079.8	1004.4	1023.6	1042.9	1063.8	1049.3	1033.3	1030.1
45°	1537.1	1529.0	1525.8	1270.7	1132.7	1123.1	1147.2	1182.5	1187.3	1177.7	1184.1
47.5°	1703.9	1711.9	1716.8	1508.2	1312.4	1246.7	1269.1	1318.9	1347.7	1346.1	1355.8
50°	1866.0	1870.8	1875.6	1769.7	1549.9	1402.3	1416.7	1484.1	1524.2	1537.1	1543.5
52.5°	2007.2	1994.3	2015.2	2000.7	1801.8	1580.4	1580.4	1657.4	1729.6	1734.4	1732.8
55°	2048.9	2056.9	2119.5	2162.8	2060.1	1798.6	1766.5	1848.3	1925.3	1965.5	1965.5
57.5°	2141.9	2150.0	2225.4	2323.2	2247.8	2013.6	1965.5	2045.7	2129.1	2206.1	2217.3
60°	2263.9	2265.5	2345.7	2494.9	2390.6	2207.7	2167.6	2259.1	2342.5	2474.1	2511.0
62.5°	2329.7	2336.1	2446.8	2642.5	2570.3	2377.8	2368.2	2451.6	2559.1	2790.1	2823.8
65°	2228.6	2270.3	2511.0	2730.8	2716.3	2536.6	2570.3	2637.7	2761.3	3099.8	3131.9
67.5°	1928.5	1975.1	2405.1	2814.2	2843.1	2685.8	2721.1	2819.0	2955.4	3334.0	3289.1
70°	1776.1	1814.6	2148.4	2860.7	2949.0	2852.7	2868.8	2960.2	3000.3	3138.3	3090.2
72.5°	1346.1	1386.2	1817.8	2701.9	3040.4	3027.6	2987.5	2912.1	2674.6	2469.2	2352.1
75°	595.3	641.8	1209.8	2111.5	2814.2	3127.1	2915.3	2493.3	1920.5	1402.3	1299.6
77.5°	263.1	290.4	468.5	1172.9	2114.7	2706.7	2305.6	1662.2	964.3	521.4	484.5
80°	85.0	88.2	147.6	410.7	1081.4	1792.2	1411.9	799.0	296.8	121.9	113.9
82.5°	33.7	36.9	70.6	173.3	447.6	712.4	693.1	288.8	86.6	32.1	32.1
85°	9.6	11.2	35.3	91.5	158.8	200.6	245.5	96.3	46.5	9.6	9.6
87.5°	3.2	3.2	12.8	28.9	30.5	20.9	46.5	36.9	28.9	3.2	3.2
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°	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0	592.0
2.5°	588.8	585.6	577.6	571.2	568.0	563.2	556.7	553.5	553.5	551.9	547.1
5°	577.6	572.8	558.3	548.7	540.7	523.1	510.2	494.2	478.1	473.3	478.1
7.5°	572.8	563.2	543.9	524.7	491.0	444.4	413.9	380.3	369.0	354.6	356.2
10°	574.4	563.2	535.9	492.6	426.8	357.8	309.7	264.7	242.3	231.0	232.6
12.5°	579.2	566.4	527.9	449.2	354.6	271.2	197.3	162.0	155.6	155.6	155.6
15°	588.8	569.6	515.0	397.9	277.6	179.7	139.6	136.4	141.2	146.0	147.6
17.5°	598.5	579.2	495.8	345.0	202.2	134.8	130.0	130.0	134.8	139.6	141.2
20°	609.7	588.8	468.5	288.8	144.4	126.8	125.1	123.5	126.8	131.6	133.2
22.5°	627.3	598.5	436.4	223.0	125.1	121.9	118.7	117.1	118.7	123.5	125.1
25°	643.4	611.3	402.7	165.3	117.1	113.9	112.3	110.7	110.7	113.9	115.5
27.5°	662.6	625.7	365.8	123.5	107.5	105.9	104.3	102.7	101.1	104.3	105.9
30°	686.7	638.6	325.7	104.3	97.9	96.3	94.7	93.1	91.5	93.1	94.7
32.5°	717.2	656.2	279.2	94.7	89.8	85.0	83.4	83.4	81.8	81.8	83.4
35°	757.3	675.5	229.4	88.2	81.8	77.0	72.2	70.6	70.6	70.6	72.2
37.5°	816.7	710.8	181.3	81.8	75.4	67.4	62.6	57.8	57.8	57.8	57.8
40°	898.5	749.3	141.2	77.0	70.6	59.4	52.9	46.5	43.3	41.7	43.3
42.5°	1025.2	807.0	109.1	70.6	67.4	52.9	43.3	35.3	28.9	27.3	28.9
45°	1164.8	869.6	86.6	65.8	61.0	44.9	33.7	24.1	17.6	16.0	17.6
47.5°	1341.3	948.2	73.8	59.4	52.9	36.9	24.1	12.8	8.0	9.6	9.6
50°	1511.4	1025.2	67.4	54.6	46.5	30.5	14.4	6.4	3.2	4.8	4.8
52.5°	1699.1	1107.1	62.6	48.1	40.1	22.5	8.0	1.6	0.0	1.6	1.6
55°	1888.4	1180.9	57.8	43.3	32.1	16.0	3.2	0.0	0.0	0.0	1.6
57.5°	2093.8	1243.4	52.9	36.9	24.1	9.6	1.6	0.0	0.0	0.0	0.0
60°	2265.5	1291.6	48.1	32.1	16.0	4.8	0.0	0.0	0.0	0.0	0.0
62.5°	2422.7	1334.9	36.9	24.1	9.6	3.2	0.0	0.0	0.0	0.0	0.0
65°	2527.0	1344.5	25.7	16.0	6.4	1.6	0.0	0.0	0.0	0.0	0.0
67.5°	2480.5	1261.1	16.0	11.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0
70°	2180.4	1058.9	11.2	6.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1525.8	683.5	9.6	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0
75°	805.4	247.1	6.4	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	285.6	54.6	3.2	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0
80°	62.6	11.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	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)