

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: P595208

Luminaire Tested: **IST-PA1D-735-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
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-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6264 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

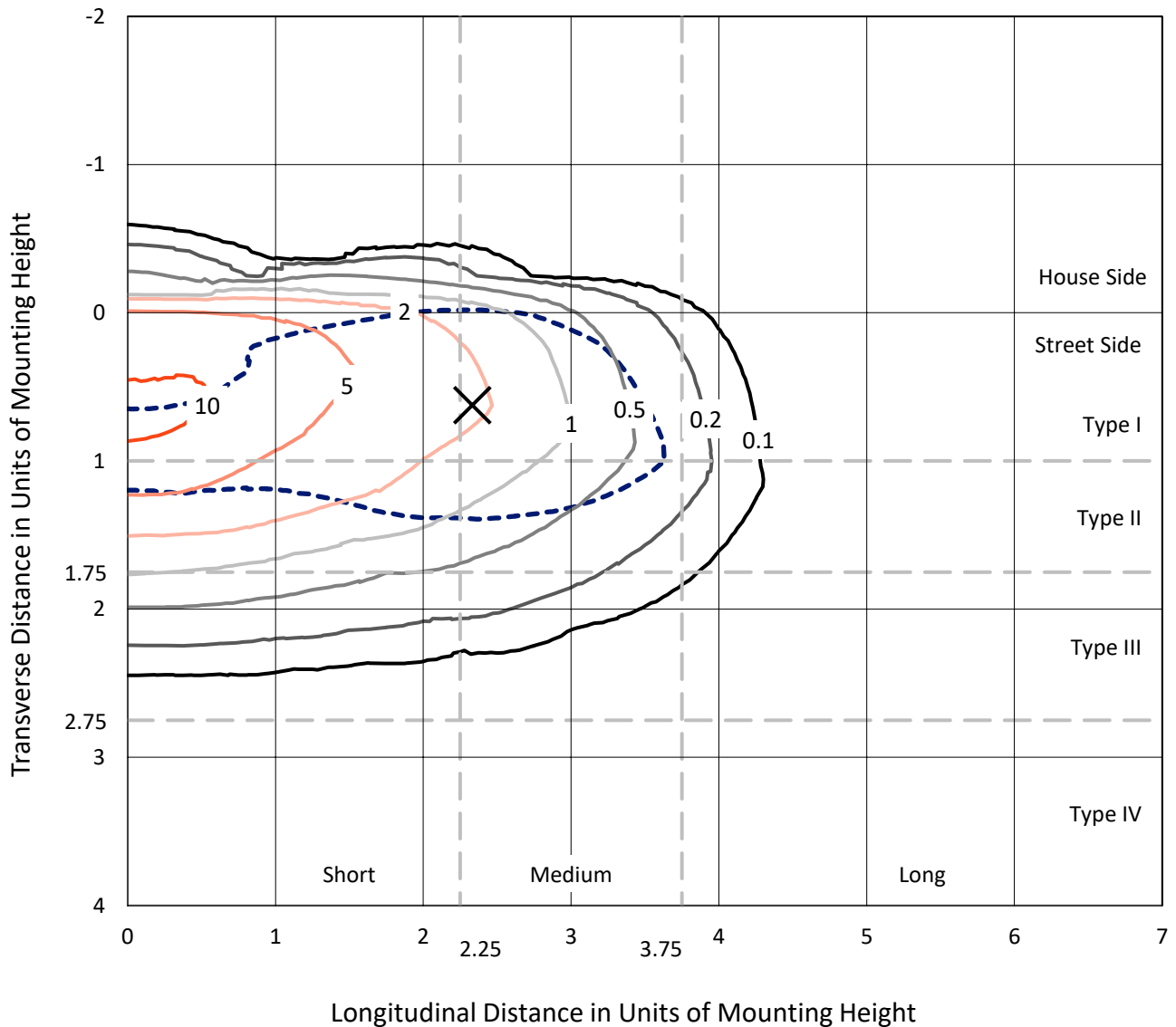
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

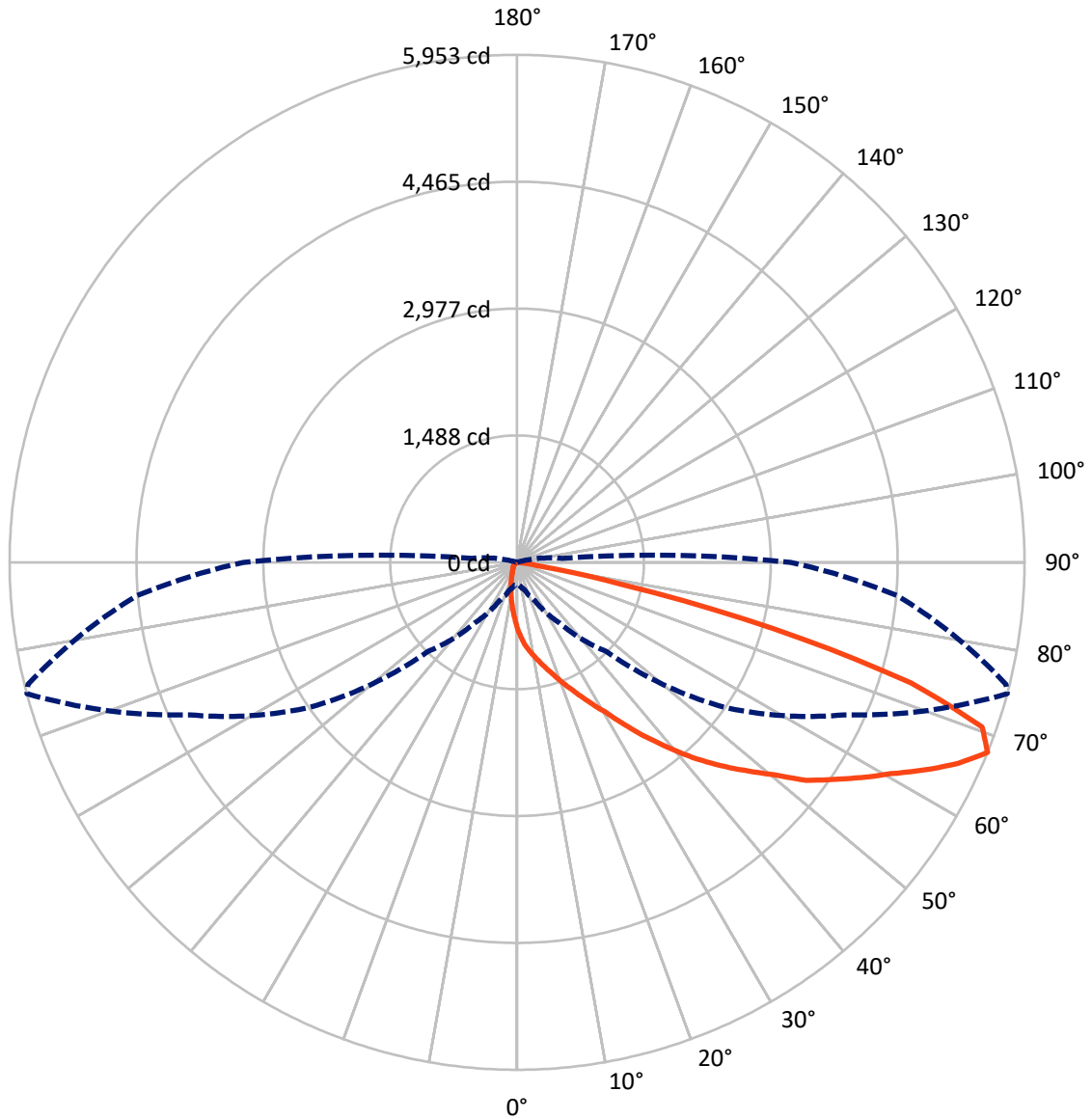
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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CATALOG NUMBER: IST-PA1D-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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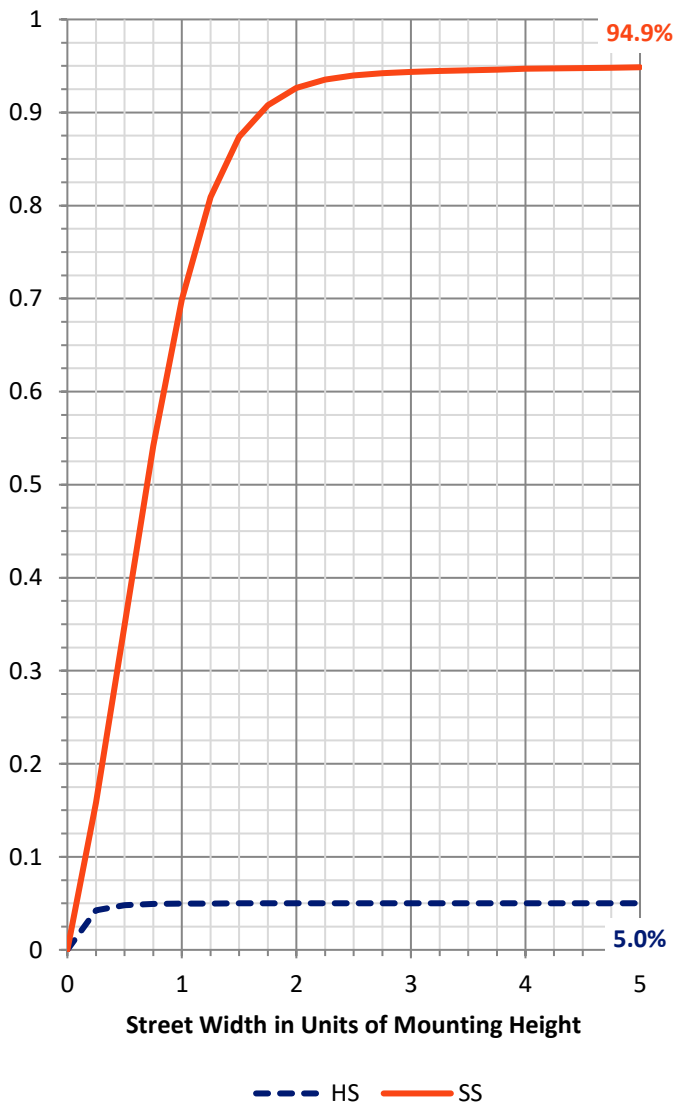
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	315.8	0.0	315.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5948.2	0.0	5948.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	6264.0	0.0	6264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.1
10°-20°	226.6	3.6
20°-30°	455.5	7.3
30°-40°	861.5	13.8
40°-50°	1288.8	20.6
50°-60°	1488.0	23.8
60°-70°	1319.0	21.1
70°-80°	533.1	8.5
80°-90°	21.3	0.3
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°	6264.0	100.0
0°-180°	6264.0	100.0

Coefficient of Utilization

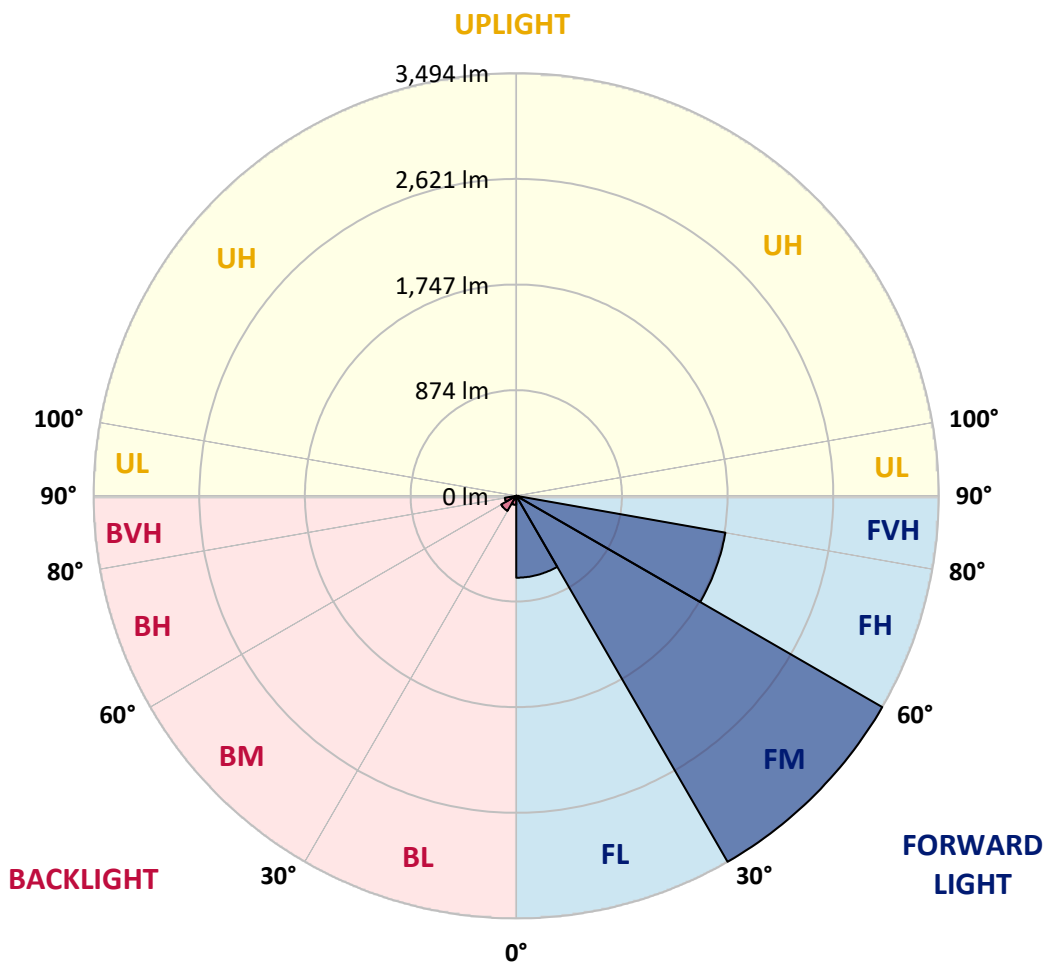


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.2	10.8			
FM (30°-60°)	3494.3	55.8			
FH (60°-80°)	1756.4	28.0			G1/1800
FVH (80°-90°)	20.3	0.3			G1/100
BL (0°-30°)	75.1	1.2	B0/110		
BM (30°-60°)	144.0	2.3	B0/220		
BH (60°-80°)	95.8	1.5	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5
2.5°	1083.1	1086.8	1079.3	1062.4	1047.4	1011.6	983.4	932.7	878.1	878.1	812.3
5°	1210.9	1207.2	1203.4	1190.3	1179.0	1148.9	1111.3	1056.8	972.1	964.6	855.6
7.5°	1273.0	1269.2	1261.7	1256.1	1256.1	1235.4	1199.7	1143.3	1049.2	1041.7	895.0
10°	1346.3	1338.8	1338.8	1323.8	1320.0	1295.6	1276.8	1227.9	1124.5	1115.1	940.2
12.5°	1432.8	1425.3	1427.2	1414.0	1408.4	1382.1	1355.7	1308.7	1205.3	1195.9	992.8
15°	1481.7	1478.0	1489.2	1491.1	1494.9	1472.3	1447.9	1399.0	1295.6	1282.4	1054.9
17.5°	1509.9	1509.9	1523.1	1547.5	1575.7	1562.6	1543.8	1504.3	1387.7	1380.2	1120.7
20°	1564.5	1558.8	1581.4	1603.9	1639.7	1651.0	1645.3	1615.2	1498.6	1476.1	1192.1
22.5°	1654.7	1647.2	1667.9	1696.1	1739.3	1743.1	1746.9	1731.8	1611.5	1588.9	1267.4
25°	1867.2	1848.4	1829.6	1825.8	1842.7	1857.8	1846.5	1857.8	1739.3	1718.6	1348.2
27.5°	2280.9	2248.9	2158.6	2059.0	1989.4	2002.6	1966.9	1987.5	1886.0	1859.7	1423.4
30°	2677.6	2645.7	2572.3	2395.6	2235.7	2164.3	2111.6	2104.1	2036.4	2006.3	1509.9
32.5°	2954.0	2933.4	2884.5	2766.0	2566.7	2384.3	2282.8	2247.0	2237.6	2190.6	1620.9
35°	3142.1	3123.3	3089.4	2993.5	2846.9	2643.8	2468.9	2389.9	2461.4	2405.0	1746.9
37.5°	3254.9	3241.7	3204.1	3138.3	3059.3	2925.8	2700.2	2574.2	2687.0	2634.4	1908.6
40°	3337.6	3303.8	3277.5	3226.7	3200.4	3157.1	2963.4	2766.0	2931.5	2876.9	2068.4
42.5°	3345.2	3330.1	3309.4	3279.3	3283.1	3311.3	3243.6	2987.9	3177.8	3127.0	2237.6
45°	3343.3	3328.2	3313.2	3283.1	3301.9	3407.2	3469.3	3221.0	3418.5	3365.8	2416.3
47.5°	3288.7	3277.5	3281.2	3281.2	3305.7	3448.6	3644.1	3458.0	3659.2	3608.4	2632.5
50°	3096.9	3108.2	3183.4	3222.9	3266.2	3450.5	3766.4	3706.2	3918.7	3882.9	2841.2
52.5°	2489.6	2553.5	2858.1	3066.9	3192.8	3412.8	3845.3	3967.6	4247.7	4193.2	3078.1
55°	1902.9	1906.7	2200.0	2685.1	3048.1	3345.2	3890.5	4144.3	4497.8	4467.7	3286.9
57.5°	1543.8	1541.9	1686.7	2122.9	2672.0	3238.0	3901.7	4274.0	4762.9	4706.5	3527.5
60°	1261.7	1254.2	1340.7	1609.6	2183.1	2986.0	3860.4	4379.3	5035.6	5014.9	3779.5
62.5°	912.0	919.5	1034.2	1242.9	1682.9	2521.6	3772.0	4411.3	5364.7	5344.0	4061.6
65°	524.6	547.2	673.2	895.0	1289.9	1972.5	3520.0	4386.9	5686.2	5684.3	4322.9
67.5°	263.2	265.1	332.8	500.2	866.8	1476.1	2963.4	4232.7	5953.2	5911.8	4473.4
70°	169.2	173.0	195.6	257.6	479.5	1022.9	2263.9	3796.4	5785.9	5770.8	4253.4
72.5°	129.7	133.5	152.3	169.2	250.1	581.0	1532.5	2950.3	4830.6	4789.3	3316.9
75°	101.5	103.4	122.2	137.3	167.4	272.7	769.1	1839.0	3112.0	3004.8	1887.9
77.5°	80.9	82.7	92.1	109.1	127.9	152.3	227.5	827.4	1265.5	1130.1	613.0
80°	52.6	54.5	69.6	84.6	109.1	99.7	88.4	238.8	270.8	244.4	109.1
82.5°	30.1	32.0	47.0	67.7	82.7	56.4	50.8	69.6	63.9	62.1	33.8
85°	9.4	9.4	32.0	47.0	37.6	16.9	32.0	24.4	20.7	18.8	11.3
87.5°	1.9	1.9	15.0	16.9	5.6	1.9	3.8	5.6	7.5	9.4	5.6
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°	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5
2.5°	780.3	742.7	673.2	613.0	554.7	503.9	468.2	436.2	413.7	408.0	398.6
5°	786.0	712.7	579.1	466.3	368.5	289.6	244.4	214.4	199.3	189.9	189.9
7.5°	791.6	682.6	490.8	340.3	233.2	176.8	148.5	135.4	129.7	127.9	126.0
10°	802.9	660.0	415.6	244.4	159.8	133.5	122.2	116.6	112.8	110.9	110.9
12.5°	821.7	641.2	346.0	180.5	131.6	118.5	110.9	103.4	99.7	97.8	97.8
15°	846.2	628.0	285.8	144.8	120.3	107.2	97.8	90.3	84.6	82.7	82.7
17.5°	880.0	618.6	235.0	127.9	110.9	95.9	84.6	77.1	71.5	69.6	69.6
20°	913.9	618.6	193.7	118.5	101.5	84.6	73.3	63.9	58.3	56.4	56.4
22.5°	959.0	616.8	161.7	109.1	90.3	73.3	62.1	50.8	47.0	45.1	45.1
25°	996.6	616.8	139.1	99.7	79.0	63.9	50.8	41.4	37.6	35.7	35.7
27.5°	1041.7	611.1	118.5	88.4	67.7	52.6	41.4	33.8	30.1	28.2	28.2
30°	1081.2	603.6	105.3	79.0	58.3	43.2	33.8	26.3	24.4	24.4	24.4
32.5°	1147.0	598.0	94.0	67.7	48.9	35.7	26.3	20.7	18.8	18.8	18.8
35°	1226.0	598.0	86.5	58.3	41.4	30.1	20.7	16.9	15.0	15.0	15.0
37.5°	1329.4	603.6	77.1	50.8	33.8	24.4	16.9	13.2	11.3	11.3	11.3
40°	1438.5	616.8	69.6	45.1	30.1	18.8	13.2	9.4	7.5	9.4	9.4
42.5°	1568.2	629.9	62.1	39.5	24.4	15.0	9.4	5.6	3.8	5.6	5.6
45°	1696.1	643.1	58.3	33.8	20.7	11.3	5.6	3.8	1.9	3.8	3.8
47.5°	1854.0	675.0	54.5	30.1	16.9	9.4	3.8	1.9	0.0	1.9	1.9
50°	2036.4	710.8	48.9	24.4	13.2	7.5	3.8	0.0	0.0	0.0	0.0
52.5°	2211.3	740.9	43.2	20.7	11.3	5.6	1.9	0.0	0.0	0.0	0.0
55°	2386.2	759.7	37.6	16.9	9.4	5.6	1.9	0.0	0.0	0.0	0.0
57.5°	2574.2	770.9	33.8	15.0	7.5	3.8	1.9	0.0	0.0	0.0	0.0
60°	2782.9	770.9	28.2	13.2	5.6	3.8	1.9	0.0	0.0	0.0	0.0
62.5°	3014.2	748.4	26.3	11.3	5.6	3.8	1.9	0.0	0.0	0.0	0.0
65°	3202.2	667.5	22.6	9.4	5.6	3.8	1.9	0.0	0.0	0.0	0.0
67.5°	3209.8	528.4	20.7	7.5	5.6	3.8	1.9	0.0	0.0	0.0	0.0
70°	2861.9	361.0	16.9	5.6	3.8	3.8	1.9	0.0	0.0	0.0	0.0
72.5°	2141.7	193.7	15.0	5.6	3.8	1.9	1.9	0.0	0.0	0.0	0.0
75°	1154.5	75.2	9.4	5.6	3.8	1.9	1.9	0.0	0.0	0.0	0.0
77.5°	336.6	37.6	5.6	3.8	3.8	1.9	1.9	0.0	0.0	0.0	0.0
80°	62.1	18.8	3.8	3.8	3.8	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	16.9	7.5	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	7.5	3.8	1.9	1.9	1.9	1.9	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)