

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: P595124

Luminaire Tested: **IST-PA1C-730-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595124
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-PA1C-730-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 615mA 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: 4376 lumens
Efficiency: N/A
Efficacy: 90.6 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

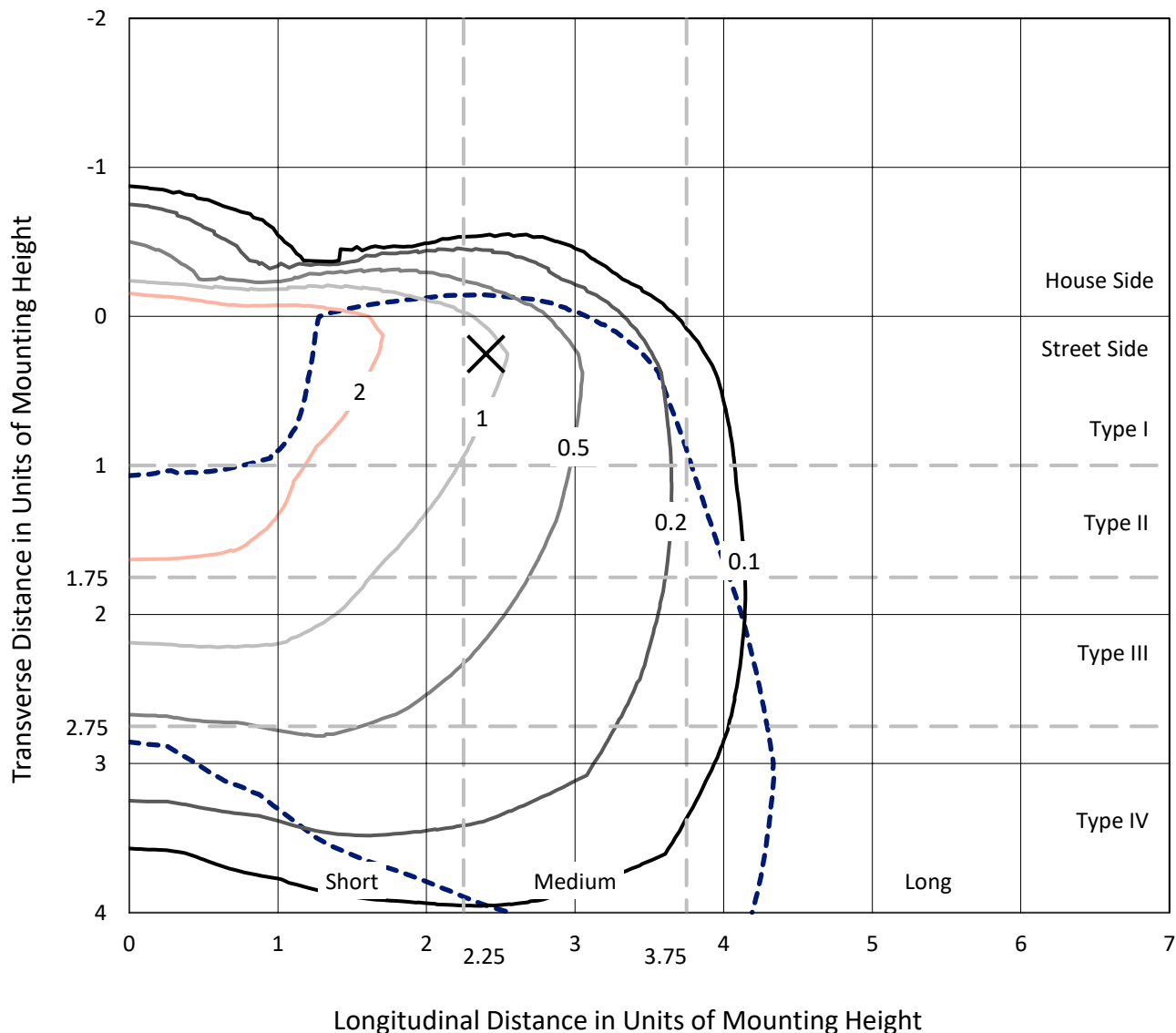
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

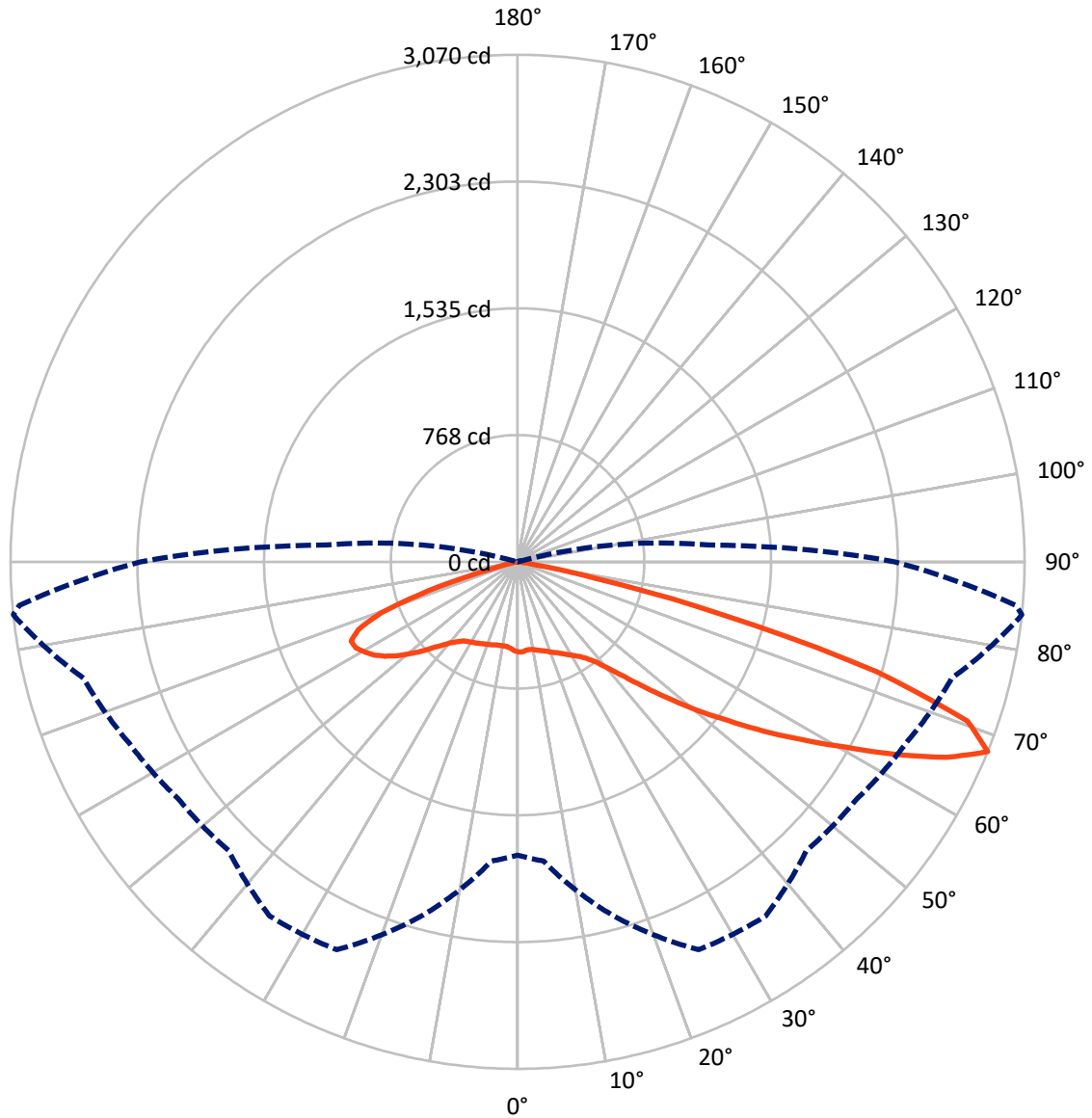
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.4 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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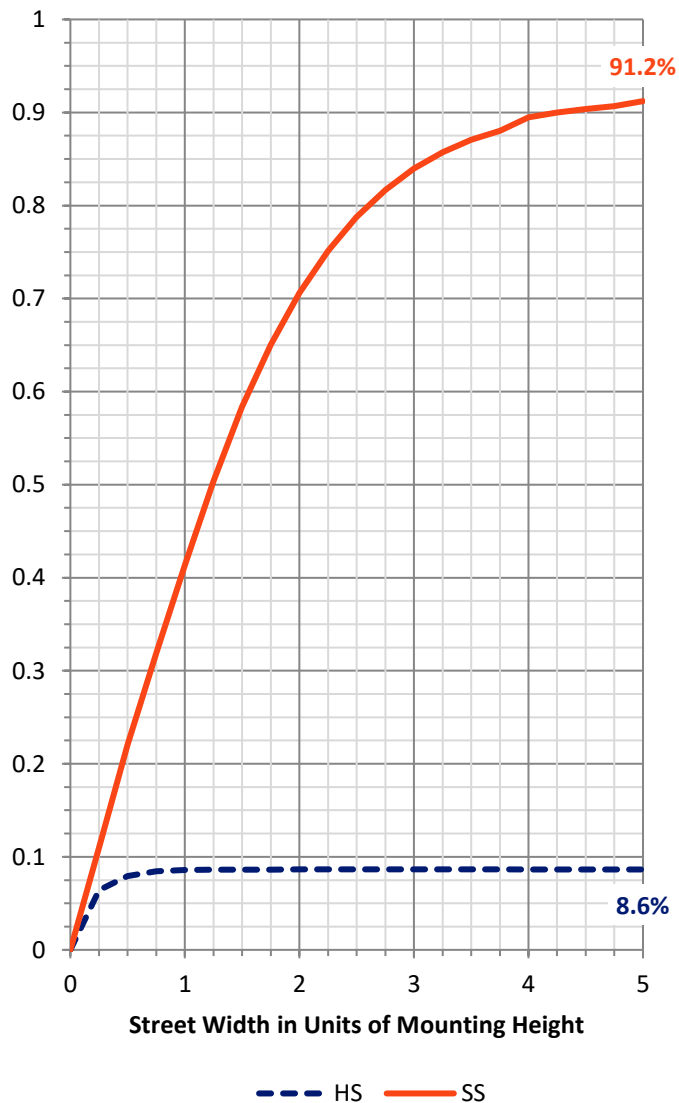
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.0	0.0	381.0
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	3995.0	0.0	3995.0
	% Fixture	91.3	0.0	91.3
Total	Lumens	4376.0	0.0	4376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.1
10°-20°	127.9	2.9
20°-30°	204.8	4.7
30°-40°	294.7	6.7
40°-50°	505.8	11.6
50°-60°	883.8	20.2
60°-70°	1265.6	28.9
70°-80°	951.2	21.7
80°-90°	93.4	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°	4376.0	100.0
0°-180°	4376.0	100.0

Coefficient of Utilization

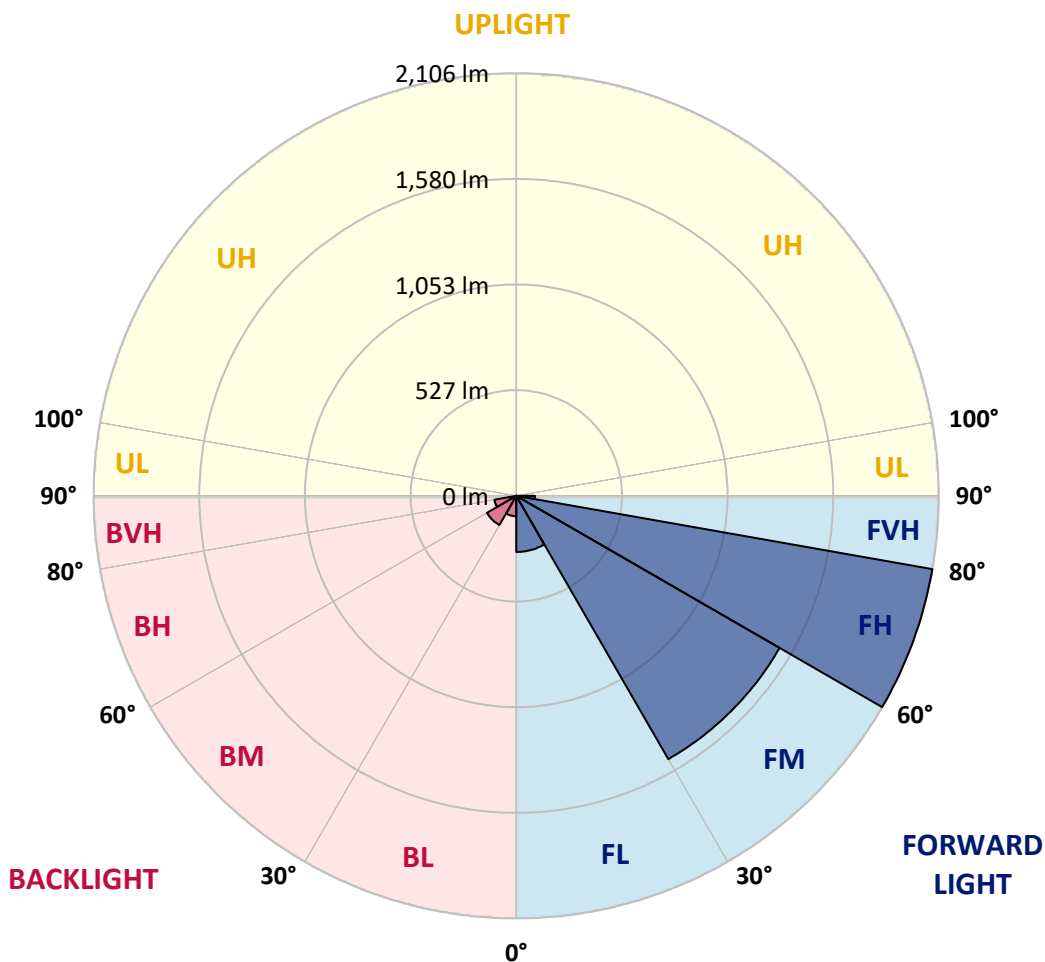


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.8	6.4			
FM (30°-60°)	1515.8	34.6			
FH (60°-80°)	2106.4	48.1			G2/5000
FVH (80°-90°)	93.1	2.1			G1/100
BL (0°-30°)	101.7	2.3	B0/110		
BM (30°-60°)	168.5	3.9	B0/220		
BH (60°-80°)	110.5	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°	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2
2.5°	576.2	579.2	580.7	573.3	573.3	567.4	558.5	555.5	551.1	546.7	545.2
5°	605.8	610.2	608.7	599.9	595.4	583.6	571.8	560.0	548.2	537.8	537.8
7.5°	639.8	641.2	636.8	622.0	613.2	596.9	579.2	565.9	551.1	536.3	533.4
10°	669.3	667.8	661.9	647.1	630.9	610.2	591.0	576.2	558.5	540.8	539.3
12.5°	690.0	691.5	684.1	663.4	647.1	623.5	604.3	589.5	568.8	549.6	545.2
15°	707.7	712.2	703.3	682.6	659.0	638.3	623.5	604.3	580.7	558.5	555.5
17.5°	724.0	725.5	718.1	694.4	672.3	654.5	638.3	620.5	596.9	568.8	565.9
20°	732.8	737.3	732.8	703.3	682.6	669.3	656.0	638.3	611.7	585.1	582.1
22.5°	738.7	743.2	741.7	709.2	691.5	681.1	669.3	653.1	627.9	596.9	594.0
25°	741.7	744.7	747.6	715.1	700.3	695.9	685.6	670.8	647.1	614.6	611.7
27.5°	746.1	749.1	752.0	722.5	716.6	712.2	709.2	697.4	669.3	635.3	630.9
30°	753.5	758.0	760.9	735.8	735.8	740.2	740.2	724.0	692.9	657.5	654.5
32.5°	762.4	763.9	769.8	749.1	756.5	766.8	763.9	747.6	715.1	682.6	678.2
35°	786.0	786.0	796.4	769.8	778.6	787.5	790.5	778.6	749.1	716.6	715.1
37.5°	843.7	843.7	852.5	809.7	808.2	817.1	827.4	827.4	797.8	768.3	765.3
40°	973.7	973.7	973.7	874.7	858.4	868.8	885.0	893.9	868.8	848.1	848.1
42.5°	1190.9	1192.3	1170.2	994.4	924.9	942.6	960.4	979.6	966.3	951.5	948.6
45°	1415.4	1408.1	1405.1	1170.2	1043.1	1034.2	1056.4	1088.9	1093.3	1084.5	1090.4
47.5°	1569.1	1576.5	1580.9	1388.8	1208.6	1148.0	1168.7	1214.5	1241.1	1239.6	1248.5
50°	1718.3	1722.8	1727.2	1629.7	1427.3	1291.3	1304.6	1366.7	1403.6	1415.4	1421.4
52.5°	1848.4	1836.5	1855.7	1842.4	1659.2	1455.3	1455.3	1526.3	1592.7	1597.2	1595.7
55°	1886.8	1894.2	1951.8	1991.7	1897.1	1656.3	1626.7	1702.1	1773.0	1809.9	1809.9
57.5°	1972.5	1979.8	2049.3	2139.4	2070.0	1854.3	1809.9	1883.8	1960.6	2031.6	2041.9
60°	2084.8	2086.2	2160.1	2297.5	2201.5	2033.0	1996.1	2080.3	2157.1	2278.3	2312.3
62.5°	2145.3	2151.2	2253.2	2433.4	2367.0	2189.7	2180.8	2257.6	2356.6	2569.4	2600.4
65°	2052.2	2090.7	2312.3	2514.7	2501.4	2335.9	2367.0	2429.0	2542.8	2854.5	2884.1
67.5°	1776.0	1818.8	2214.8	2591.5	2618.1	2473.3	2505.8	2596.0	2721.6	3070.2	3028.9
70°	1635.6	1671.1	1978.4	2634.4	2715.6	2627.0	2641.8	2726.0	2762.9	2890.0	2845.7
72.5°	1239.6	1276.6	1674.0	2488.1	2799.9	2788.0	2751.1	2681.7	2463.0	2273.9	2166.0
75°	548.2	591.0	1114.0	1944.4	2591.5	2879.6	2684.6	2296.0	1768.6	1291.3	1196.8
77.5°	242.3	267.4	431.4	1080.1	1947.3	2492.5	2123.2	1530.7	888.0	480.2	446.2
80°	78.3	81.3	135.9	378.2	995.8	1650.4	1300.2	735.8	273.3	112.3	104.9
82.5°	31.0	34.0	65.0	159.6	412.2	656.0	638.3	265.9	79.8	29.5	29.5
85°	8.9	10.3	32.5	84.2	146.3	184.7	226.1	88.6	42.8	8.9	8.9
87.5°	3.0	3.0	11.8	26.6	28.1	19.2	42.8	34.0	26.6	3.0	3.0
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°	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2
2.5°	542.2	539.3	531.9	526.0	523.0	518.6	512.7	509.7	509.7	508.3	503.8
5°	531.9	527.5	514.2	505.3	497.9	481.7	469.8	455.1	440.3	435.9	440.3
7.5°	527.5	518.6	500.9	483.1	452.1	409.3	381.2	350.2	339.8	326.5	328.0
10°	528.9	518.6	493.5	453.6	393.0	329.5	285.2	243.8	223.1	212.8	214.2
12.5°	533.4	521.6	486.1	413.7	326.5	249.7	181.7	149.2	143.3	143.3	143.3
15°	542.2	524.5	474.3	366.4	255.6	165.5	128.5	125.6	130.0	134.5	135.9
17.5°	551.1	533.4	456.5	317.7	186.2	124.1	119.7	119.7	124.1	128.5	130.0
20°	561.4	542.2	431.4	265.9	133.0	116.7	115.2	113.8	116.7	121.2	122.6
22.5°	577.7	551.1	401.9	205.4	115.2	112.3	109.3	107.9	109.3	113.8	115.2
25°	592.5	562.9	370.9	152.2	107.9	104.9	103.4	101.9	101.9	104.9	106.4
27.5°	610.2	576.2	336.9	113.8	99.0	97.5	96.0	94.6	93.1	96.0	97.5
30°	632.4	588.0	299.9	96.0	90.1	88.6	87.2	85.7	84.2	85.7	87.2
32.5°	660.4	604.3	257.1	87.2	82.7	78.3	76.8	76.8	75.4	75.4	76.8
35°	697.4	622.0	211.3	81.3	75.4	70.9	66.5	65.0	65.0	65.0	66.5
37.5°	752.0	654.5	167.0	75.4	69.4	62.1	57.6	53.2	53.2	53.2	53.2
40°	827.4	690.0	130.0	70.9	65.0	54.7	48.8	42.8	39.9	38.4	39.9
42.5°	944.1	743.2	100.5	65.0	62.1	48.8	39.9	32.5	26.6	25.1	26.6
45°	1072.7	800.8	79.8	60.6	56.1	41.4	31.0	22.2	16.3	14.8	16.3
47.5°	1235.2	873.2	68.0	54.7	48.8	34.0	22.2	11.8	7.4	8.9	8.9
50°	1391.8	944.1	62.1	50.2	42.8	28.1	13.3	5.9	3.0	4.4	4.4
52.5°	1564.7	1019.5	57.6	44.3	36.9	20.7	7.4	1.5	0.0	1.5	1.5
55°	1739.0	1087.4	53.2	39.9	29.5	14.8	3.0	0.0	0.0	0.0	1.5
57.5°	1928.1	1145.1	48.8	34.0	22.2	8.9	1.5	0.0	0.0	0.0	0.0
60°	2086.2	1189.4	44.3	29.5	14.8	4.4	0.0	0.0	0.0	0.0	0.0
62.5°	2231.0	1229.3	34.0	22.2	8.9	3.0	0.0	0.0	0.0	0.0	0.0
65°	2327.1	1238.1	23.6	14.8	5.9	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	2284.2	1161.3	14.8	10.3	3.0	1.5	0.0	0.0	0.0	0.0	0.0
70°	2007.9	975.1	10.3	5.9	1.5	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	1405.1	629.4	8.9	4.4	1.5	1.5	0.0	0.0	0.0	0.0	0.0
75°	741.7	227.5	5.9	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	263.0	50.2	3.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0
80°	57.6	10.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)