

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: P595118

Luminaire Tested: **IST-PA1C-730-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595118
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-PA1C-730-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 615mA 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: 4921 lumens
Efficiency: N/A
Efficacy: 101.9 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

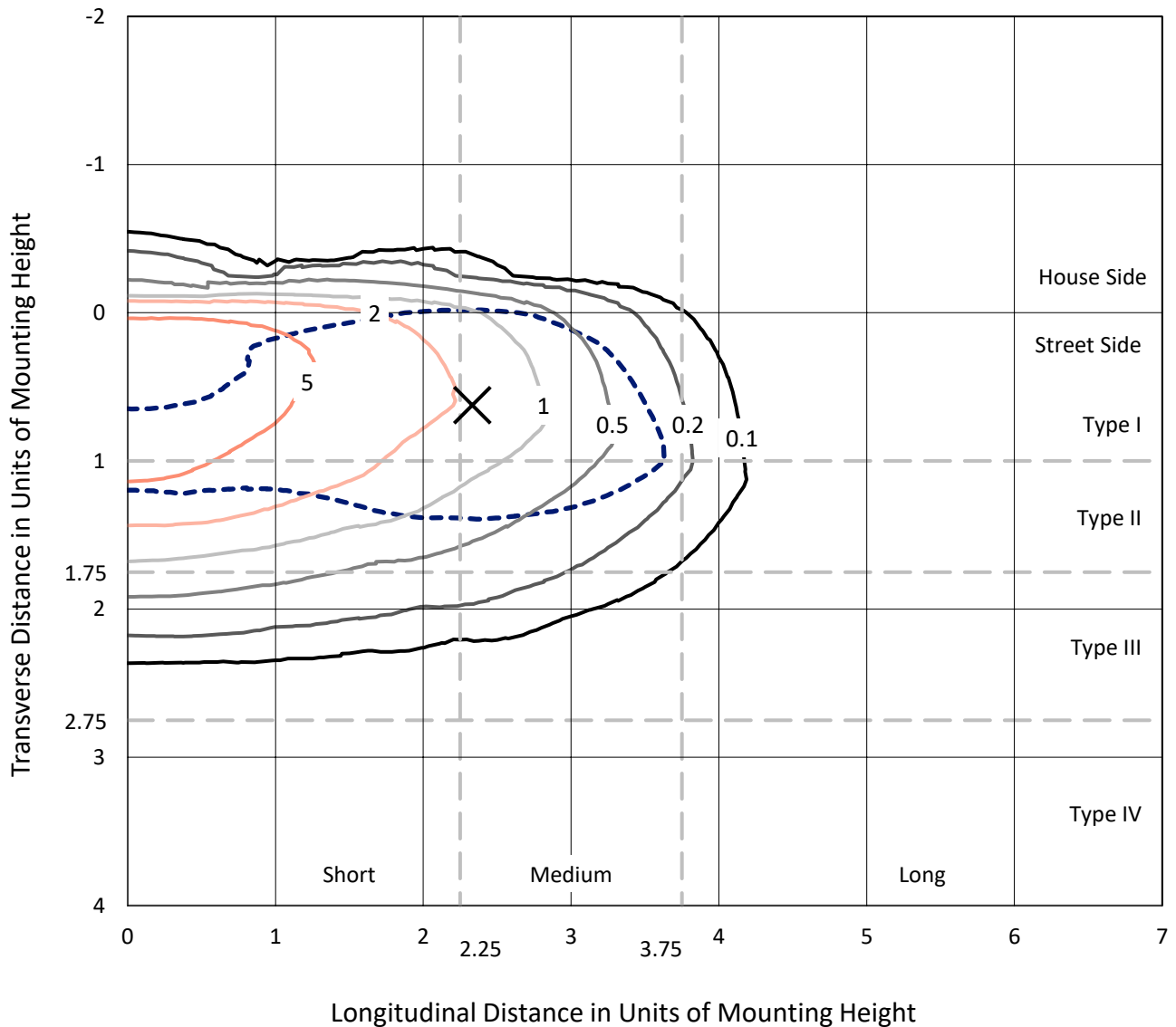
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

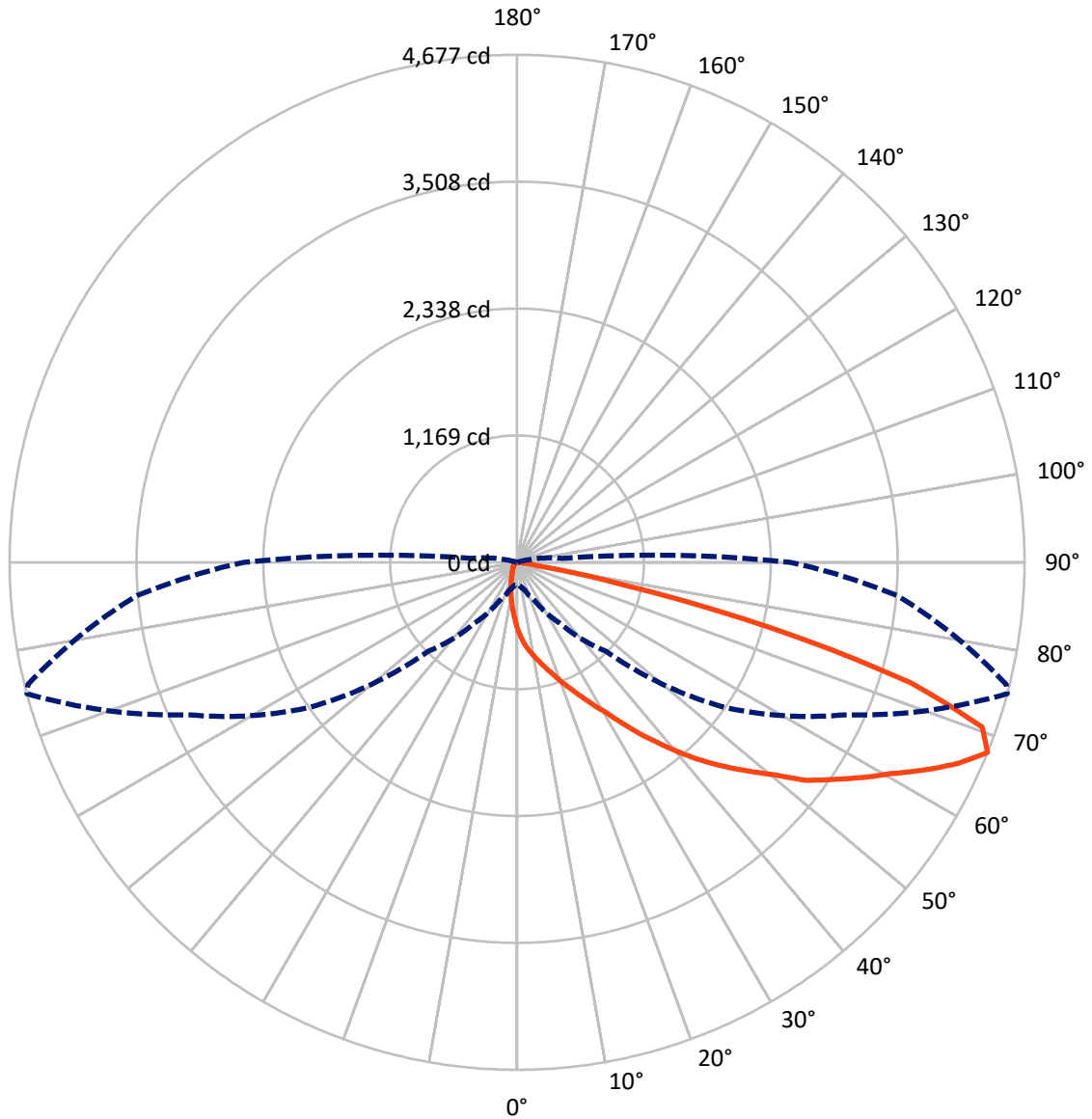
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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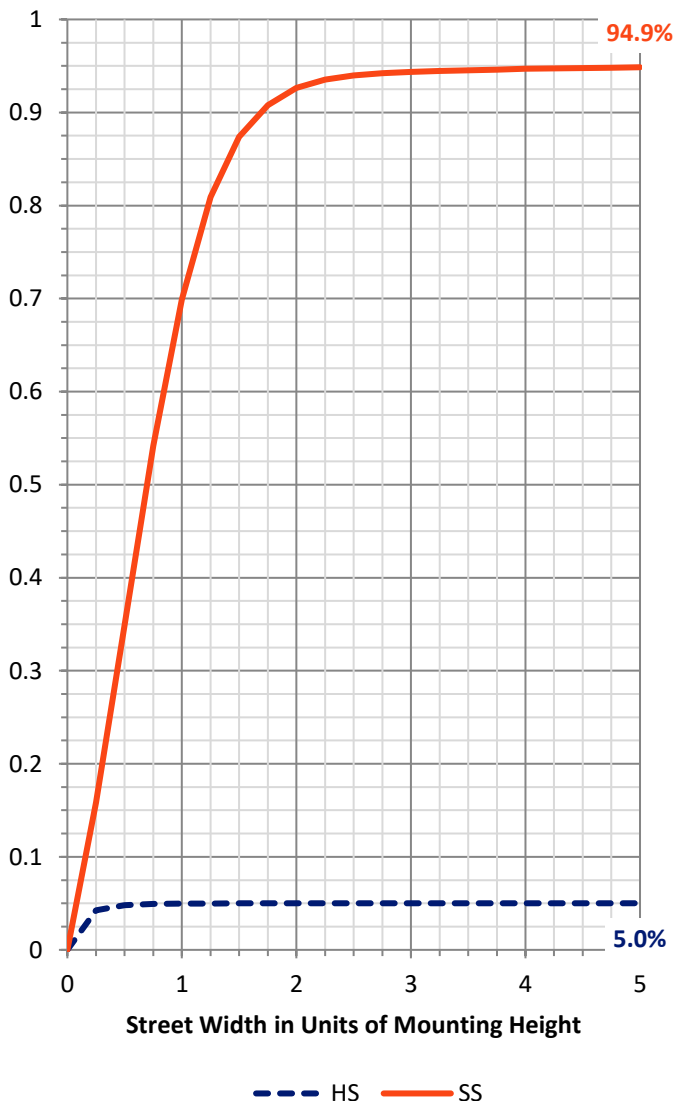
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	248.1	0.0	248.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4672.9	0.0	4672.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	4921.0	0.0	4921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	1.1
10°-20°	178.0	3.6
20°-30°	357.8	7.3
30°-40°	676.8	13.8
40°-50°	1012.5	20.6
50°-60°	1169.0	23.8
60°-70°	1036.2	21.1
70°-80°	418.8	8.5
80°-90°	16.7	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°	4921.0	100.0
0°-180°	4921.0	100.0

Coefficient of Utilization

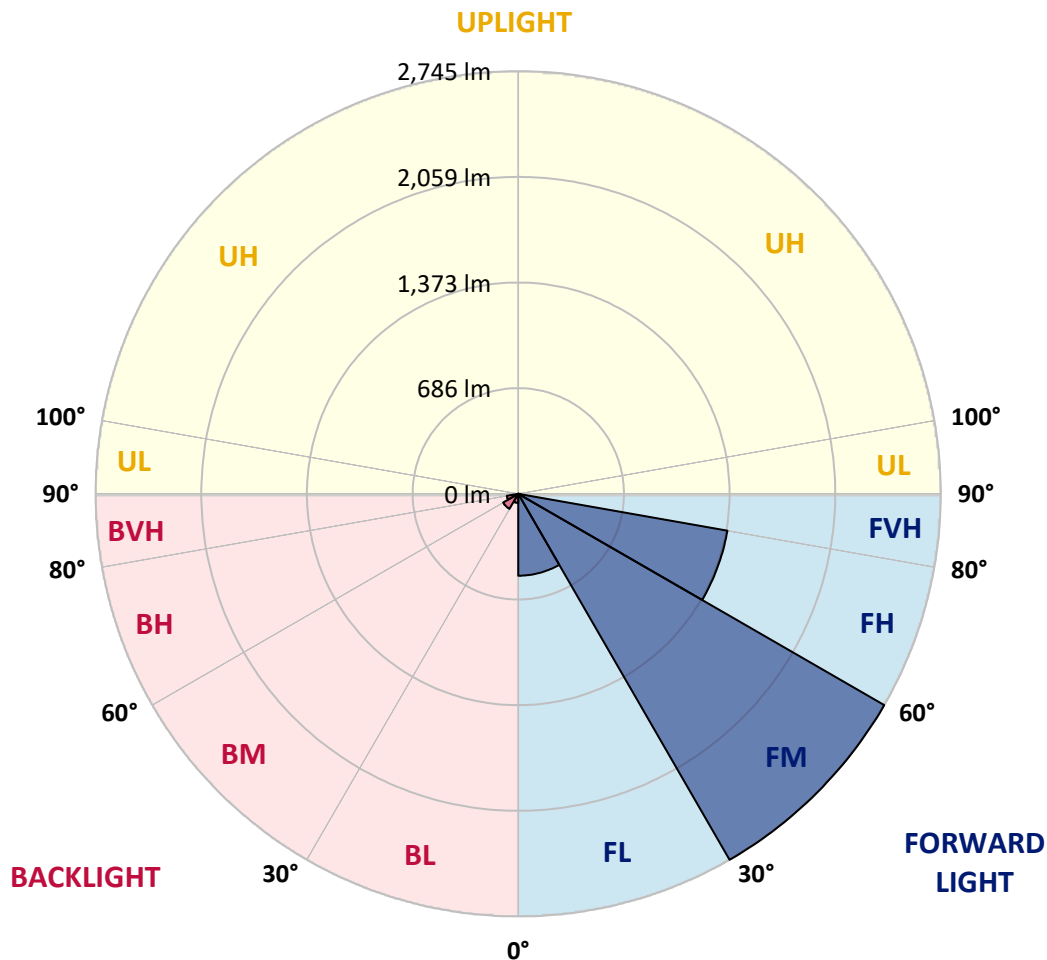


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.0	10.8			
FM (30°-60°)	2745.1	55.8			
FH (60°-80°)	1379.8	28.0			G1/1800
FVH (80°-90°)	16.0	0.3			G1/100
BL (0°-30°)	59.0	1.2	B0/110		
BM (30°-60°)	113.2	2.3	B0/220		
BH (60°-80°)	75.2	1.5	B0/110		G0/110
BVH (80°-90°)	0.7	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°	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6
2.5°	850.9	853.8	847.9	834.6	822.8	794.7	772.6	732.7	689.9	689.9	638.2
5°	951.3	948.4	945.4	935.1	926.2	902.6	873.0	830.2	763.7	757.8	672.1
7.5°	1000.1	997.1	991.2	986.8	986.8	970.5	942.5	898.1	824.3	818.4	703.2
10°	1057.7	1051.8	1051.8	1040.0	1037.0	1017.8	1003.0	964.6	883.4	876.0	738.6
12.5°	1125.6	1119.7	1121.2	1110.9	1106.4	1085.7	1065.1	1028.1	946.9	939.5	780.0
15°	1164.0	1161.1	1169.9	1171.4	1174.4	1156.7	1137.5	1099.0	1017.8	1007.5	828.7
17.5°	1186.2	1186.2	1196.5	1215.7	1237.9	1227.6	1212.8	1181.8	1090.2	1084.3	880.4
20°	1229.0	1224.6	1242.3	1260.1	1288.1	1297.0	1292.6	1268.9	1177.3	1159.6	936.5
22.5°	1299.9	1294.0	1310.3	1332.4	1366.4	1369.4	1372.3	1360.5	1266.0	1248.2	995.6
25°	1466.9	1452.1	1437.3	1434.4	1447.7	1459.5	1450.6	1459.5	1366.4	1350.2	1059.2
27.5°	1791.9	1766.7	1695.8	1617.5	1562.9	1573.2	1545.2	1561.4	1481.6	1461.0	1118.2
30°	2103.5	2078.4	2020.8	1882.0	1756.4	1700.3	1658.9	1653.0	1599.8	1576.2	1186.2
32.5°	2320.7	2304.4	2266.0	2173.0	2016.4	1873.1	1793.3	1765.3	1757.9	1720.9	1273.4
35°	2468.4	2453.6	2427.1	2351.7	2236.5	2077.0	1939.6	1877.5	1933.7	1889.3	1372.3
37.5°	2557.0	2546.7	2517.2	2465.5	2403.4	2298.5	2121.3	2022.3	2110.9	2069.6	1499.4
40°	2622.0	2595.5	2574.8	2534.9	2514.2	2480.2	2328.1	2173.0	2303.0	2260.1	1624.9
42.5°	2628.0	2616.1	2599.9	2576.3	2579.2	2601.4	2548.2	2347.3	2496.5	2456.6	1757.9
45°	2626.5	2614.7	2602.8	2579.2	2594.0	2676.7	2725.4	2530.5	2685.6	2644.2	1898.2
47.5°	2583.6	2574.8	2577.7	2577.7	2596.9	2709.2	2862.8	2716.6	2874.6	2834.8	2068.1
50°	2433.0	2441.8	2500.9	2531.9	2565.9	2710.7	2958.8	2911.6	3078.5	3050.4	2232.1
52.5°	1955.8	2006.0	2245.4	2409.3	2508.3	2681.1	3020.9	3116.9	3337.0	3294.2	2418.2
55°	1494.9	1497.9	1728.3	2109.5	2394.6	2628.0	3056.3	3255.8	3533.5	3509.8	2582.2
57.5°	1212.8	1211.3	1325.1	1667.8	2099.1	2543.8	3065.2	3357.7	3741.8	3697.5	2771.2
60°	991.2	985.3	1053.2	1264.5	1715.0	2345.8	3032.7	3440.4	3956.0	3939.7	2969.2
62.5°	716.4	722.4	812.5	976.4	1322.1	1980.9	2963.3	3465.5	4214.5	4198.2	3190.8
65°	412.1	429.9	528.8	703.2	1013.4	1549.6	2765.3	3446.3	4467.1	4465.6	3396.1
67.5°	206.8	208.3	261.5	392.9	681.0	1159.6	2328.1	3325.2	4676.8	4644.3	3514.3
70°	132.9	135.9	153.6	202.4	376.7	803.6	1778.6	2982.5	4545.4	4533.6	3341.4
72.5°	101.9	104.9	119.7	132.9	196.5	456.5	1203.9	2317.7	3794.9	3762.4	2605.8
75°	79.8	81.2	96.0	107.8	131.5	214.2	604.2	1444.7	2444.8	2360.6	1483.1
77.5°	63.5	65.0	72.4	85.7	100.5	119.7	178.7	650.0	994.2	887.8	481.6
80°	41.4	42.8	54.7	66.5	85.7	78.3	69.4	187.6	212.7	192.0	85.7
82.5°	23.6	25.1	36.9	53.2	65.0	44.3	39.9	54.7	50.2	48.7	26.6
85°	7.4	7.4	25.1	36.9	29.5	13.3	25.1	19.2	16.2	14.8	8.9
87.5°	1.5	1.5	11.8	13.3	4.4	1.5	3.0	4.4	5.9	7.4	4.4
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°	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6	611.6
2.5°	613.0	583.5	528.8	481.6	435.8	395.9	367.8	342.7	325.0	320.6	313.2
5°	617.5	559.9	455.0	366.3	289.5	227.5	192.0	168.4	156.6	149.2	149.2
7.5°	621.9	536.2	385.6	267.4	183.2	138.9	116.7	106.4	101.9	100.5	99.0
10°	630.8	518.5	326.5	192.0	125.6	104.9	96.0	91.6	88.6	87.2	87.2
12.5°	645.5	503.7	271.8	141.8	103.4	93.1	87.2	81.2	78.3	76.8	76.8
15°	664.7	493.4	224.5	113.7	94.5	84.2	76.8	70.9	66.5	65.0	65.0
17.5°	691.3	486.0	184.7	100.5	87.2	75.3	66.5	60.6	56.1	54.7	54.7
20°	717.9	486.0	152.2	93.1	79.8	66.5	57.6	50.2	45.8	44.3	44.3
22.5°	753.4	484.5	127.0	85.7	70.9	57.6	48.7	39.9	36.9	35.5	35.5
25°	782.9	484.5	109.3	78.3	62.0	50.2	39.9	32.5	29.5	28.1	28.1
27.5°	818.4	480.1	93.1	69.4	53.2	41.4	32.5	26.6	23.6	22.2	22.2
30°	849.4	474.2	82.7	62.0	45.8	34.0	26.6	20.7	19.2	19.2	19.2
32.5°	901.1	469.8	73.9	53.2	38.4	28.1	20.7	16.2	14.8	14.8	14.8
35°	963.1	469.8	68.0	45.8	32.5	23.6	16.2	13.3	11.8	11.8	11.8
37.5°	1044.4	474.2	60.6	39.9	26.6	19.2	13.3	10.3	8.9	8.9	8.9
40°	1130.1	484.5	54.7	35.5	23.6	14.8	10.3	7.4	5.9	7.4	7.4
42.5°	1232.0	494.9	48.7	31.0	19.2	11.8	7.4	4.4	3.0	4.4	4.4
45°	1332.4	505.2	45.8	26.6	16.2	8.9	4.4	3.0	1.5	3.0	3.0
47.5°	1456.5	530.3	42.8	23.6	13.3	7.4	3.0	1.5	0.0	1.5	1.5
50°	1599.8	558.4	38.4	19.2	10.3	5.9	3.0	0.0	0.0	0.0	0.0
52.5°	1737.2	582.0	34.0	16.2	8.9	4.4	1.5	0.0	0.0	0.0	0.0
55°	1874.6	596.8	29.5	13.3	7.4	4.4	1.5	0.0	0.0	0.0	0.0
57.5°	2022.3	605.7	26.6	11.8	5.9	3.0	1.5	0.0	0.0	0.0	0.0
60°	2186.3	605.7	22.2	10.3	4.4	3.0	1.5	0.0	0.0	0.0	0.0
62.5°	2368.0	587.9	20.7	8.9	4.4	3.0	1.5	0.0	0.0	0.0	0.0
65°	2515.7	524.4	17.7	7.4	4.4	3.0	1.5	0.0	0.0	0.0	0.0
67.5°	2521.6	415.1	16.2	5.9	4.4	3.0	1.5	0.0	0.0	0.0	0.0
70°	2248.3	283.6	13.3	4.4	3.0	3.0	1.5	0.0	0.0	0.0	0.0
72.5°	1682.5	152.2	11.8	4.4	3.0	1.5	1.5	0.0	0.0	0.0	0.0
75°	907.0	59.1	7.4	4.4	3.0	1.5	1.5	0.0	0.0	0.0	0.0
77.5°	264.4	29.5	4.4	3.0	3.0	1.5	1.5	0.0	0.0	0.0	0.0
80°	48.7	14.8	3.0	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	13.3	5.9	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	5.9	3.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	1.5	1.5	1.5	1.5	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)