

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: P595253

Luminaire Tested: **IST-PA1D-830-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595253  
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-830-U-T2R-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 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: 5344 lumens  
Efficiency: N/A  
Efficacy: 85.6 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

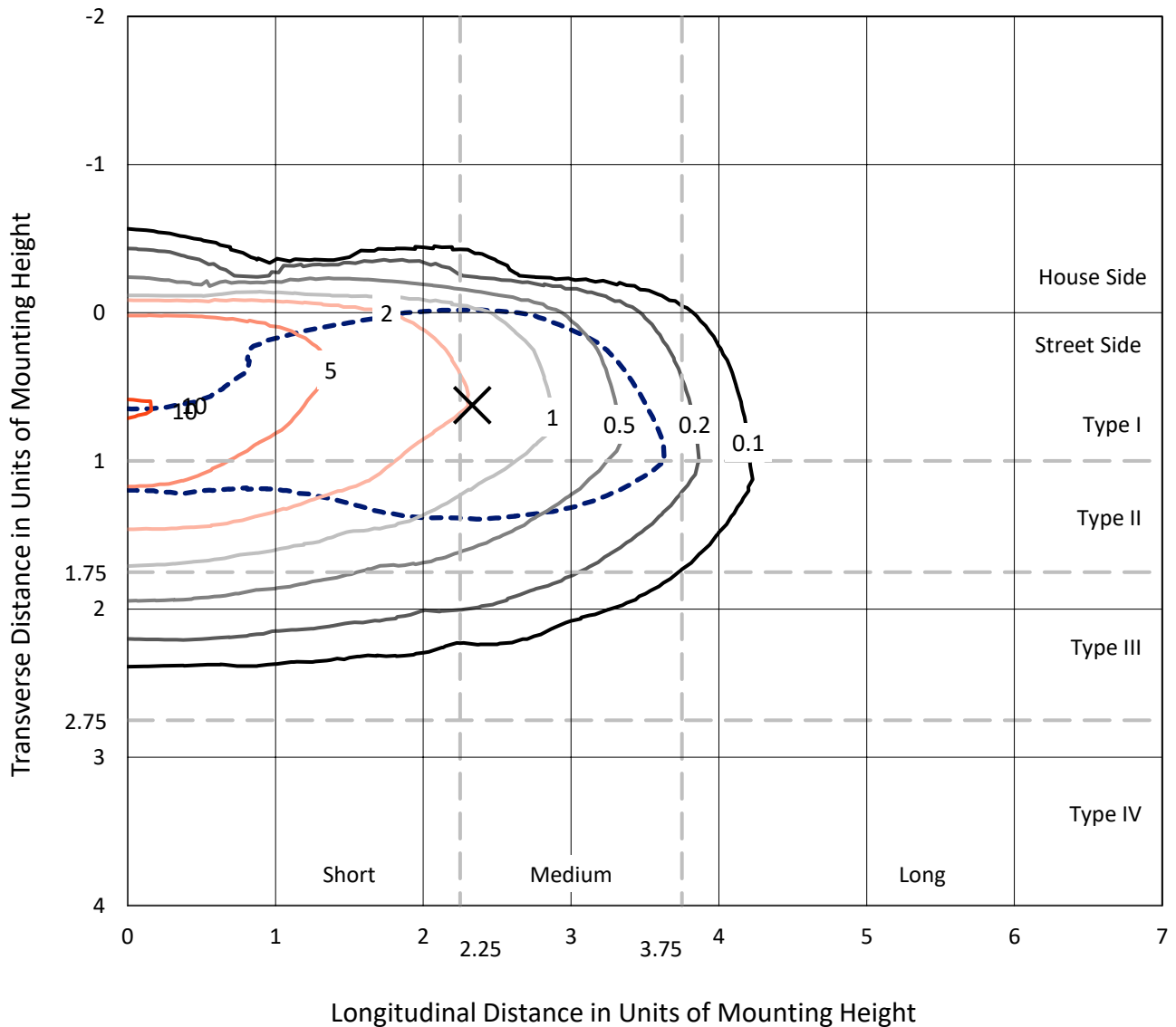
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

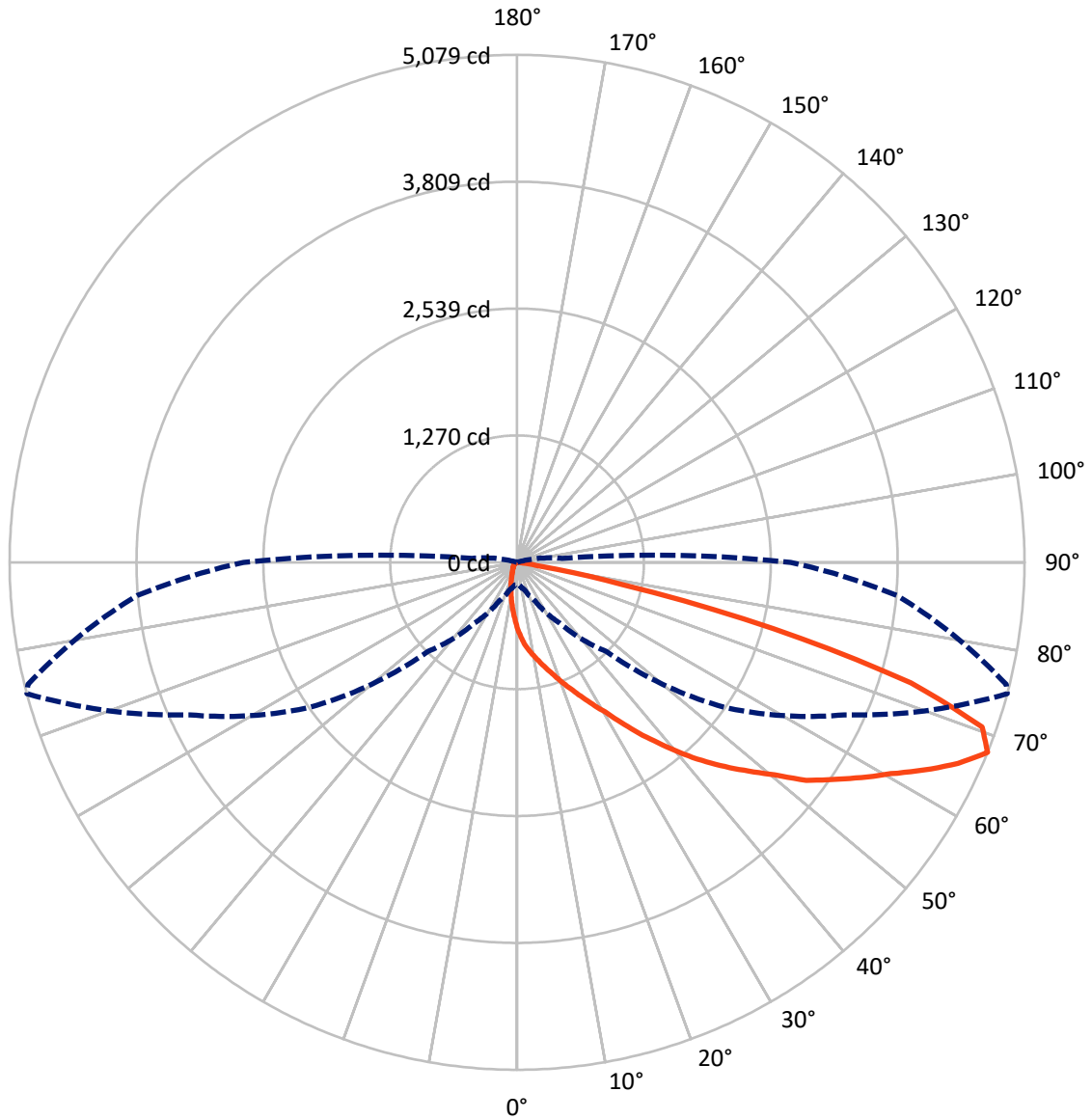
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.5 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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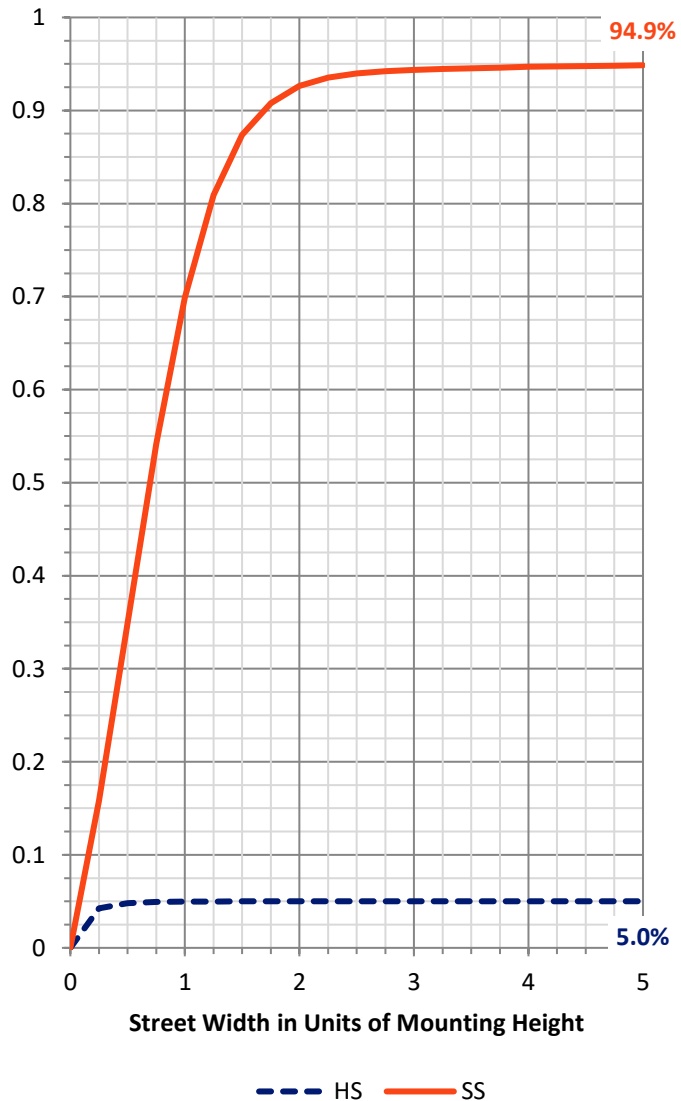
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	269.4	0.0	269.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5074.6	0.0	5074.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5344.0	0.0	5344.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.9	1.1
10°-20°	193.3	3.6
20°-30°	388.6	7.3
30°-40°	735.0	13.8
40°-50°	1099.5	20.6
50°-60°	1269.5	23.8
60°-70°	1125.3	21.1
70°-80°	454.8	8.5
80°-90°	18.1	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°	5344.0	100.0
0°-180°	5344.0	100.0

**Coefficient of Utilization**

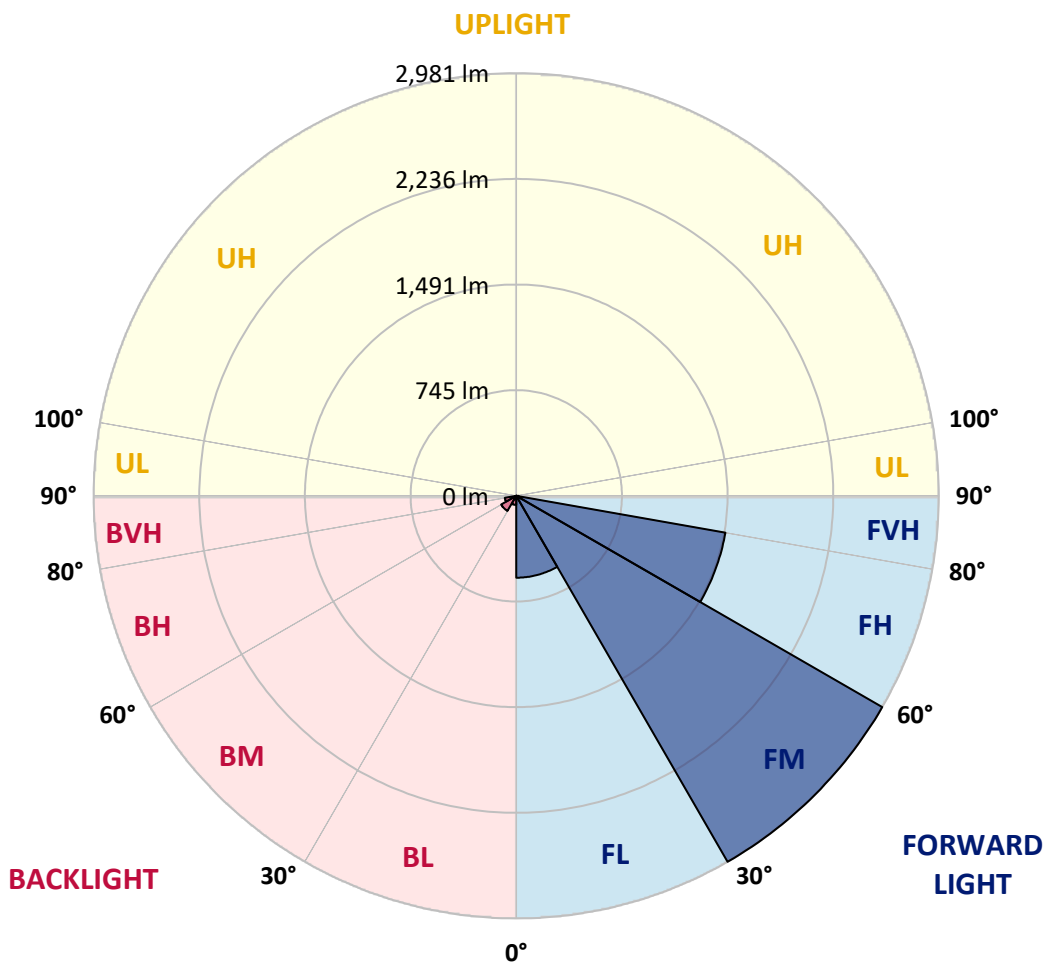


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.7	10.8			
FM (30°-60°)	2981.1	55.8			
FH (60°-80°)	1498.4	28.0			G1/1800
FVH (80°-90°)	17.4	0.3			G1/100
BL (0°-30°)	64.0	1.2	B0/110		
BM (30°-60°)	122.9	2.3	B0/220		
BH (60°-80°)	81.7	1.5	B0/110		G0/110
BVH (80°-90°)	0.8	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°	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1
2.5°	924.0	927.2	920.8	906.4	893.5	863.1	839.0	795.7	749.2	749.2	693.0
5°	1033.1	1029.9	1026.7	1015.4	1005.8	980.2	948.1	901.6	829.4	822.9	729.9
7.5°	1086.0	1082.8	1076.4	1071.6	1071.6	1054.0	1023.5	975.3	895.1	888.7	763.6
10°	1148.6	1142.2	1142.2	1129.3	1126.1	1105.3	1089.2	1047.5	959.3	951.3	802.1
12.5°	1222.4	1216.0	1217.6	1206.3	1201.5	1179.1	1156.6	1116.5	1028.3	1020.3	847.0
15°	1264.1	1260.9	1270.5	1272.1	1275.3	1256.1	1235.2	1193.5	1105.3	1094.1	899.9
17.5°	1288.2	1288.2	1299.4	1320.2	1344.3	1333.1	1317.0	1283.3	1183.9	1177.5	956.1
20°	1334.7	1329.9	1349.1	1368.4	1398.9	1408.5	1403.7	1378.0	1278.5	1259.3	1017.1
22.5°	1411.7	1405.3	1422.9	1447.0	1483.9	1487.1	1490.3	1477.5	1374.8	1355.5	1081.2
25°	1593.0	1576.9	1560.9	1557.7	1572.1	1584.9	1575.3	1584.9	1483.9	1466.2	1150.2
27.5°	1945.9	1918.6	1841.6	1756.6	1697.2	1708.5	1678.0	1695.6	1609.0	1586.5	1214.4
30°	2284.4	2257.1	2194.5	2043.7	1907.4	1846.4	1801.5	1795.1	1737.3	1711.7	1288.2
32.5°	2520.2	2502.5	2460.8	2359.8	2189.7	2034.1	1947.5	1917.0	1909.0	1868.9	1382.8
35°	2680.6	2664.6	2635.7	2553.9	2428.7	2255.5	2106.3	2038.9	2099.9	2051.8	1490.3
37.5°	2776.8	2765.6	2733.5	2677.4	2610.0	2496.1	2303.6	2196.1	2292.4	2247.5	1628.2
40°	2847.4	2818.6	2796.1	2752.8	2730.3	2693.4	2528.2	2359.8	2500.9	2454.4	1764.6
42.5°	2853.8	2841.0	2823.4	2797.7	2800.9	2825.0	2767.2	2549.1	2711.1	2667.8	1909.0
45°	2852.2	2839.4	2826.6	2800.9	2817.0	2906.8	2959.7	2748.0	2916.4	2871.5	2061.4
47.5°	2805.7	2796.1	2799.3	2799.3	2820.2	2942.1	3108.9	2950.1	3121.7	3078.4	2245.9
50°	2642.1	2651.7	2715.9	2749.6	2786.5	2943.7	3213.2	3161.9	3343.1	3312.6	2423.9
52.5°	2123.9	2178.5	2438.4	2616.4	2723.9	2911.6	3280.6	3384.8	3623.9	3577.3	2626.1
55°	1623.4	1626.6	1876.9	2290.8	2600.4	2853.8	3319.1	3535.6	3837.2	3811.5	2804.1
57.5°	1317.0	1315.4	1439.0	1811.1	2279.5	2762.4	3328.7	3646.3	4063.4	4015.3	3009.5
60°	1076.4	1070.0	1143.8	1373.2	1862.5	2547.4	3293.4	3736.1	4296.0	4278.4	3224.4
62.5°	778.0	784.4	882.3	1060.4	1435.7	2151.2	3218.0	3763.4	4576.7	4559.1	3465.0
65°	447.6	466.8	574.3	763.6	1100.5	1682.8	3003.0	3742.6	4851.1	4849.5	3688.0
67.5°	224.6	226.2	283.9	426.7	739.5	1259.3	2528.2	3611.0	5078.9	5043.6	3816.4
70°	144.4	147.6	166.8	219.8	409.1	872.7	1931.4	3238.9	4936.1	4923.2	3628.7
72.5°	110.7	113.9	129.9	144.4	213.4	495.7	1307.4	2517.0	4121.2	4085.9	2829.8
75°	86.6	88.2	104.3	117.1	142.8	232.6	656.1	1568.9	2654.9	2563.5	1610.6
77.5°	69.0	70.6	78.6	93.0	109.1	129.9	194.1	705.8	1079.6	964.1	523.0
80°	44.9	46.5	59.4	72.2	93.0	85.0	75.4	203.7	231.0	208.5	93.0
82.5°	25.7	27.3	40.1	57.8	70.6	48.1	43.3	59.4	54.5	52.9	28.9
85°	8.0	8.0	27.3	40.1	32.1	14.4	27.3	20.9	17.6	16.0	9.6
87.5°	1.6	1.6	12.8	14.4	4.8	1.6	3.2	4.8	6.4	8.0	4.8
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°	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1
2.5°	665.7	633.7	574.3	523.0	473.2	429.9	399.4	372.2	352.9	348.1	340.1
5°	670.5	608.0	494.1	397.8	314.4	247.0	208.5	182.9	170.0	162.0	162.0
7.5°	675.4	582.3	418.7	290.4	198.9	150.8	126.7	115.5	110.7	109.1	107.5
10°	685.0	563.1	354.5	208.5	136.4	113.9	104.3	99.5	96.3	94.6	94.6
12.5°	701.0	547.0	295.2	154.0	112.3	101.1	94.6	88.2	85.0	83.4	83.4
15°	721.9	535.8	243.8	123.5	102.7	91.4	83.4	77.0	72.2	70.6	70.6
17.5°	750.8	527.8	200.5	109.1	94.6	81.8	72.2	65.8	61.0	59.4	59.4
20°	779.6	527.8	165.2	101.1	86.6	72.2	62.6	54.5	49.7	48.1	48.1
22.5°	818.1	526.2	138.0	93.0	77.0	62.6	52.9	43.3	40.1	38.5	38.5
25°	850.2	526.2	118.7	85.0	67.4	54.5	43.3	35.3	32.1	30.5	30.5
27.5°	888.7	521.4	101.1	75.4	57.8	44.9	35.3	28.9	25.7	24.1	24.1
30°	922.4	514.9	89.8	67.4	49.7	36.9	28.9	22.5	20.9	20.9	20.9
32.5°	978.6	510.1	80.2	57.8	41.7	30.5	22.5	17.6	16.0	16.0	16.0
35°	1045.9	510.1	73.8	49.7	35.3	25.7	17.6	14.4	12.8	12.8	12.8
37.5°	1134.2	514.9	65.8	43.3	28.9	20.9	14.4	11.2	9.6	9.6	9.6
40°	1227.2	526.2	59.4	38.5	25.7	16.0	11.2	8.0	6.4	8.0	8.0
42.5°	1337.9	537.4	52.9	33.7	20.9	12.8	8.0	4.8	3.2	4.8	4.8
45°	1447.0	548.6	49.7	28.9	17.6	9.6	4.8	3.2	1.6	3.2	3.2
47.5°	1581.7	575.9	46.5	25.7	14.4	8.0	3.2	1.6	0.0	1.6	1.6
50°	1737.3	606.4	41.7	20.9	11.2	6.4	3.2	0.0	0.0	0.0	0.0
52.5°	1886.5	632.0	36.9	17.6	9.6	4.8	1.6	0.0	0.0	0.0	0.0
55°	2035.7	648.1	32.1	14.4	8.0	4.8	1.6	0.0	0.0	0.0	0.0
57.5°	2196.1	657.7	28.9	12.8	6.4	3.2	1.6	0.0	0.0	0.0	0.0
60°	2374.2	657.7	24.1	11.2	4.8	3.2	1.6	0.0	0.0	0.0	0.0
62.5°	2571.5	638.5	22.5	9.6	4.8	3.2	1.6	0.0	0.0	0.0	0.0
65°	2731.9	569.5	19.3	8.0	4.8	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	2738.3	450.8	17.6	6.4	4.8	3.2	1.6	0.0	0.0	0.0	0.0
70°	2441.6	308.0	14.4	4.8	3.2	3.2	1.6	0.0	0.0	0.0	0.0
72.5°	1827.2	165.2	12.8	4.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0
75°	985.0	64.2	8.0	4.8	3.2	1.6	1.6	0.0	0.0	0.0	0.0
77.5°	287.1	32.1	4.8	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0
80°	52.9	16.0	3.2	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	14.4	6.4	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	6.4	3.2	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	1.6	1.6	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)