

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: P595122

Luminaire Tested: **IST-PA1C-730-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
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-T3-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4436 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

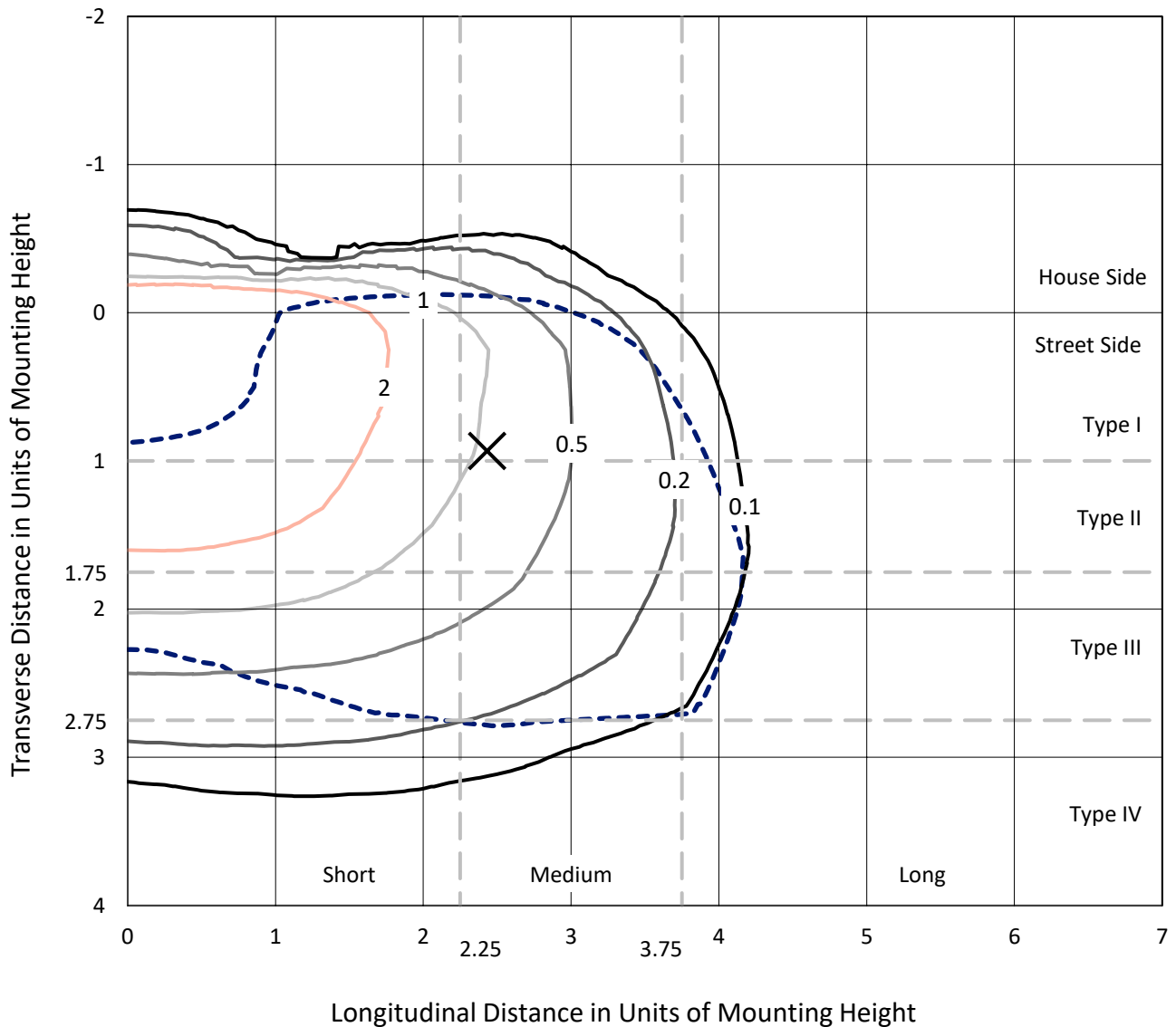
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

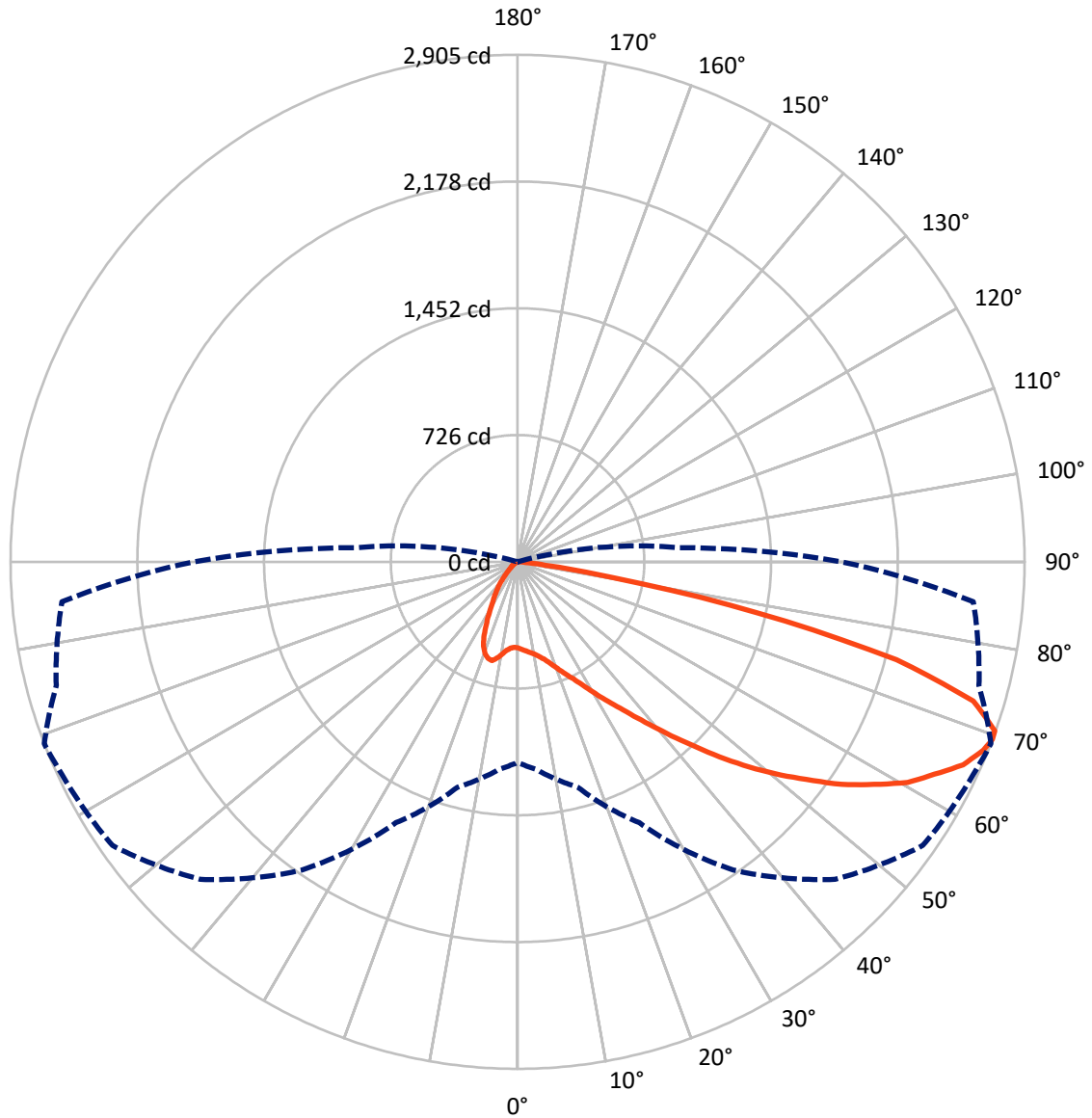
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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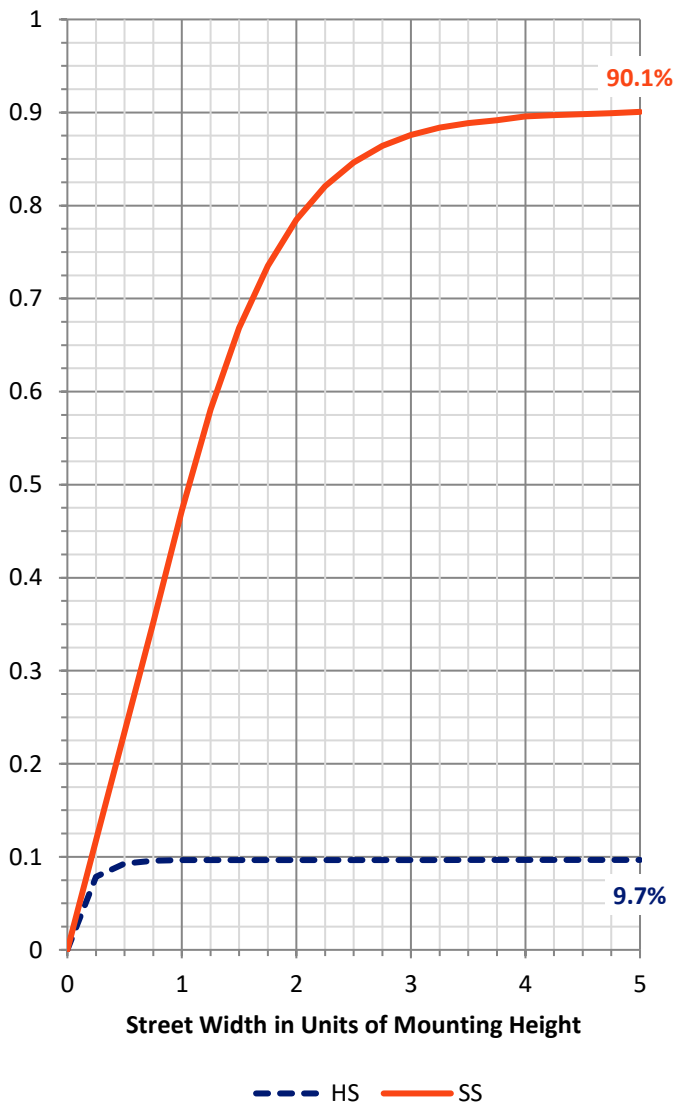
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	432.3	0.0	432.3
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	4003.8	0.0	4003.8
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	4436.0	0.0	4436.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.1	1.1
10°-20°	124.5	2.8
20°-30°	207.3	4.7
30°-40°	373.1	8.4
40°-50°	676.6	15.3
50°-60°	1057.3	23.8
60°-70°	1223.3	27.6
70°-80°	684.1	15.4
80°-90°	42.7	1.0
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°	4436.0	100.0
0°-180°	4436.0	100.0

**Coefficient of Utilization**

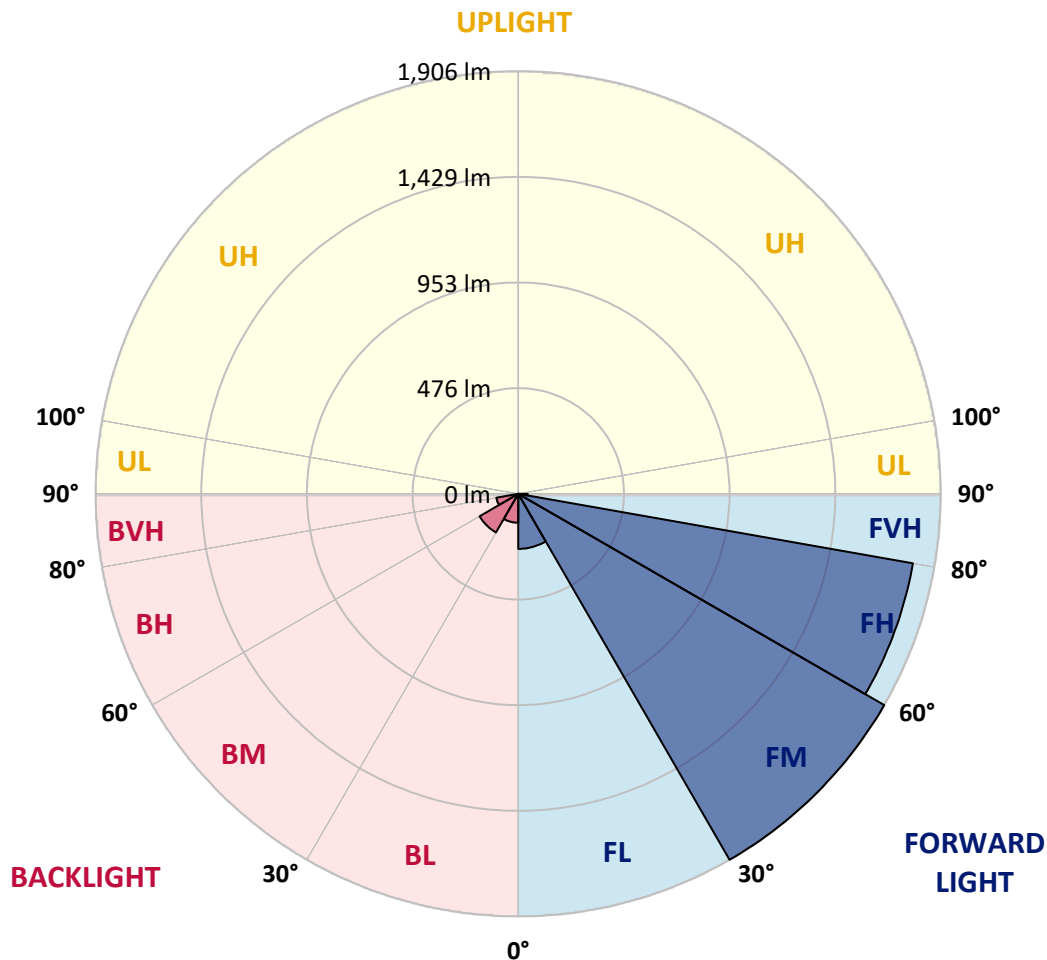


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.2	5.6			
FM (30°-60°)	1905.9	43.0			
FH (60°-80°)	1807.3	40.7			G2/5000
FVH (80°-90°)	42.4	1.0			G1/100
BL (0°-30°)	130.6	2.9	B1/500		
BM (30°-60°)	201.2	4.5	B0/220		
BH (60°-80°)	100.1	2.3	B0/110		G0/110
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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4
2.5°	511.2	511.2	511.2	508.2	509.7	508.2	506.7	502.3	503.8	502.3	497.9
5°	493.4	494.9	499.3	502.3	509.7	512.6	514.1	514.1	512.6	509.7	506.7
7.5°	459.5	459.5	463.9	472.8	487.5	503.8	517.1	524.5	525.9	525.9	521.5
10°	450.6	450.6	456.5	462.4	477.2	496.4	517.1	534.8	537.8	540.7	539.2
12.5°	446.2	447.6	453.5	463.9	483.1	500.8	523.0	548.1	557.0	564.3	565.8
15°	452.1	452.1	458.0	468.3	490.5	515.6	543.7	571.7	580.6	590.9	598.3
17.5°	460.9	463.9	466.8	477.2	497.9	528.9	565.8	602.8	613.1	626.4	632.3
20°	475.7	475.7	478.7	487.5	509.7	546.6	598.3	642.6	651.5	660.4	667.8
22.5°	493.4	494.9	494.9	502.3	527.4	567.3	626.4	681.1	695.8	700.3	703.2
25°	546.6	543.7	533.3	528.9	548.1	590.9	660.4	726.9	743.1	747.5	741.6
27.5°	657.4	645.6	617.5	588.0	585.0	627.9	706.2	784.5	802.2	803.7	783.0
30°	796.3	797.8	752.0	688.4	645.6	667.8	756.4	856.9	874.6	867.2	834.7
32.5°	967.7	960.3	926.3	834.7	749.0	729.8	811.1	932.2	952.9	941.1	898.2
35°	1113.9	1118.4	1077.0	995.7	887.9	825.8	877.5	1016.4	1041.5	1020.8	967.7
37.5°	1236.5	1242.4	1217.3	1150.9	1054.8	957.3	964.7	1115.4	1149.4	1128.7	1062.2
40°	1372.5	1376.9	1366.5	1294.2	1208.5	1113.9	1081.4	1229.2	1274.9	1246.9	1177.4
42.5°	1521.7	1537.9	1520.2	1462.6	1373.9	1292.7	1243.9	1368.0	1413.8	1396.1	1303.0
45°	1725.5	1727.0	1706.3	1648.7	1557.1	1490.6	1431.5	1515.8	1574.9	1552.7	1443.4
47.5°	1876.2	1886.6	1874.8	1834.9	1761.0	1716.7	1635.4	1678.3	1740.3	1712.2	1588.1
50°	1991.5	2019.5	2009.2	2021.0	1984.1	1964.9	1840.8	1846.7	1907.3	1883.6	1735.9
52.5°	2055.0	2090.4	2093.4	2154.0	2185.0	2232.3	2040.2	2031.4	2069.8	2049.1	1886.6
55°	2046.1	2055.0	2128.9	2239.7	2360.8	2468.6	2235.2	2198.3	2251.5	2193.9	2046.1
57.5°	1960.4	1982.6	2112.6	2250.0	2464.2	2620.8	2403.6	2362.3	2406.6	2329.8	2210.1
60°	1837.8	1870.3	2037.3	2233.7	2524.8	2712.4	2567.6	2526.3	2566.2	2473.1	2396.3
62.5°	1727.0	1741.8	1895.4	2165.8	2489.3	2708.0	2694.7	2656.3	2679.9	2582.4	2555.8
65°	1568.9	1574.9	1727.0	2043.2	2411.0	2678.4	2764.1	2778.9	2804.0	2674.0	2669.6
67.5°	1325.2	1338.5	1489.2	1829.0	2281.0	2620.8	2818.8	2848.3	2877.9	2722.7	2690.2
69°	1149.4	1192.2	1337.0	1648.7	2155.4	2572.1	2833.5	2880.8	2904.5	2736.0	2620.8
70°	1006.1	1043.0	1209.9	1509.8	2044.6	2517.4	2843.9	2876.4	2900.0	2708.0	2507.1
72.5°	505.3	552.5	781.5	1102.1	1625.1	2267.7	2790.7	2755.3	2730.1	2490.8	2028.4
75°	195.0	202.4	335.4	627.9	1016.4	1665.0	2383.0	2316.5	2242.6	1889.5	1202.6
77.5°	107.8	106.4	146.3	277.7	432.9	814.0	1611.8	1505.4	1403.5	1014.9	487.5
80°	45.8	48.8	63.5	133.0	227.5	282.2	783.0	695.8	554.0	322.1	116.7
82.5°	28.1	29.5	44.3	81.3	158.1	107.8	254.1	217.2	159.6	87.2	28.1
85°	8.9	10.3	31.0	54.7	76.8	44.3	57.6	50.2	44.3	36.9	8.9
87.5°	1.5	1.5	11.8	29.5	20.7	7.4	5.9	10.3	16.3	17.7	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°	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4
2.5°	496.4	493.4	490.5	489.0	489.0	486.0	484.6	483.1	483.1	481.6	481.6
5°	502.3	499.3	496.4	494.9	492.0	490.5	490.5	490.5	489.0	490.5	492.0
7.5°	517.1	512.6	511.2	509.7	509.7	505.3	497.9	478.7	459.5	453.5	447.6
10°	537.8	536.3	536.3	536.3	525.9	487.5	434.3	387.1	361.9	341.3	341.3
12.5°	567.3	567.3	565.8	561.4	508.2	415.1	332.4	261.5	220.1	196.5	199.4
15°	599.8	598.3	601.3	573.2	447.6	320.6	200.9	141.8	119.7	116.7	116.7
17.5°	633.8	636.7	633.8	542.2	367.9	198.0	119.7	107.8	104.9	104.9	104.9
20°	669.2	666.3	661.9	489.0	267.4	124.1	103.4	100.5	97.5	96.0	96.0
22.5°	704.7	701.7	672.2	421.0	166.9	101.9	97.5	91.6	87.2	85.7	85.7
25°	738.7	738.7	653.0	333.9	113.8	96.0	88.6	82.7	78.3	73.9	73.9
27.5°	781.5	784.5	622.0	233.4	96.0	88.6	79.8	70.9	65.0	62.0	62.0
30°	830.3	834.7	571.7	152.2	87.2	78.3	69.4	59.1	50.2	47.3	45.8
32.5°	887.9	892.3	514.1	100.5	78.3	68.0	57.6	44.3	35.5	34.0	32.5
35°	961.8	951.4	444.7	79.8	68.0	57.6	44.3	31.0	25.1	23.6	23.6
37.5°	1053.3	1031.2	364.9	69.4	57.6	45.8	32.5	20.7	16.3	16.3	14.8
40°	1158.2	1096.2	282.2	62.0	48.8	35.5	20.7	13.3	10.3	10.3	10.3
42.5°	1273.5	1150.9	200.9	54.7	39.9	25.1	13.3	7.4	5.9	5.9	5.9
45°	1406.4	1201.1	137.4	47.3	34.0	17.7	7.4	3.0	3.0	3.0	3.0
47.5°	1539.4	1233.6	91.6	41.4	25.1	10.3	4.4	1.5	1.5	1.5	1.5
50°	1673.8	1258.7	70.9	35.5	17.7	5.9	1.5	0.0	0.0	0.0	0.0
52.5°	1793.5	1276.4	57.6	29.5	11.8	4.4	1.5	0.0	0.0	0.0	0.0
55°	1896.9	1277.9	50.2	23.6	8.9	3.0	0.0	0.0	0.0	0.0	0.0
57.5°	2001.8	1266.1	42.8	17.7	5.9	1.5	0.0	0.0	0.0	0.0	0.0
60°	2065.3	1235.1	34.0	13.3	4.4	1.5	0.0	0.0	0.0	0.0	0.0
62.5°	2103.7	1183.4	26.6	8.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0
65°	2081.6	1118.4	19.2	5.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	1978.2	1017.9	13.3	4.4	1.5	1.5	0.0	0.0	0.0	0.0	0.0
69°	1855.5	926.3	11.8	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
70°	1747.7	855.4	10.3	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	1301.5	551.1	8.9	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
75°	731.3	184.7	5.9	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	274.8	47.3	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	60.6	11.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	1.5	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)