

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: P595212

Luminaire Tested: **IST-PA1D-735-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595212  
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-PA1D-735-U-T3-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 800mA 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: 5647 lumens  
Efficiency: N/A  
Efficacy: 90.5 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

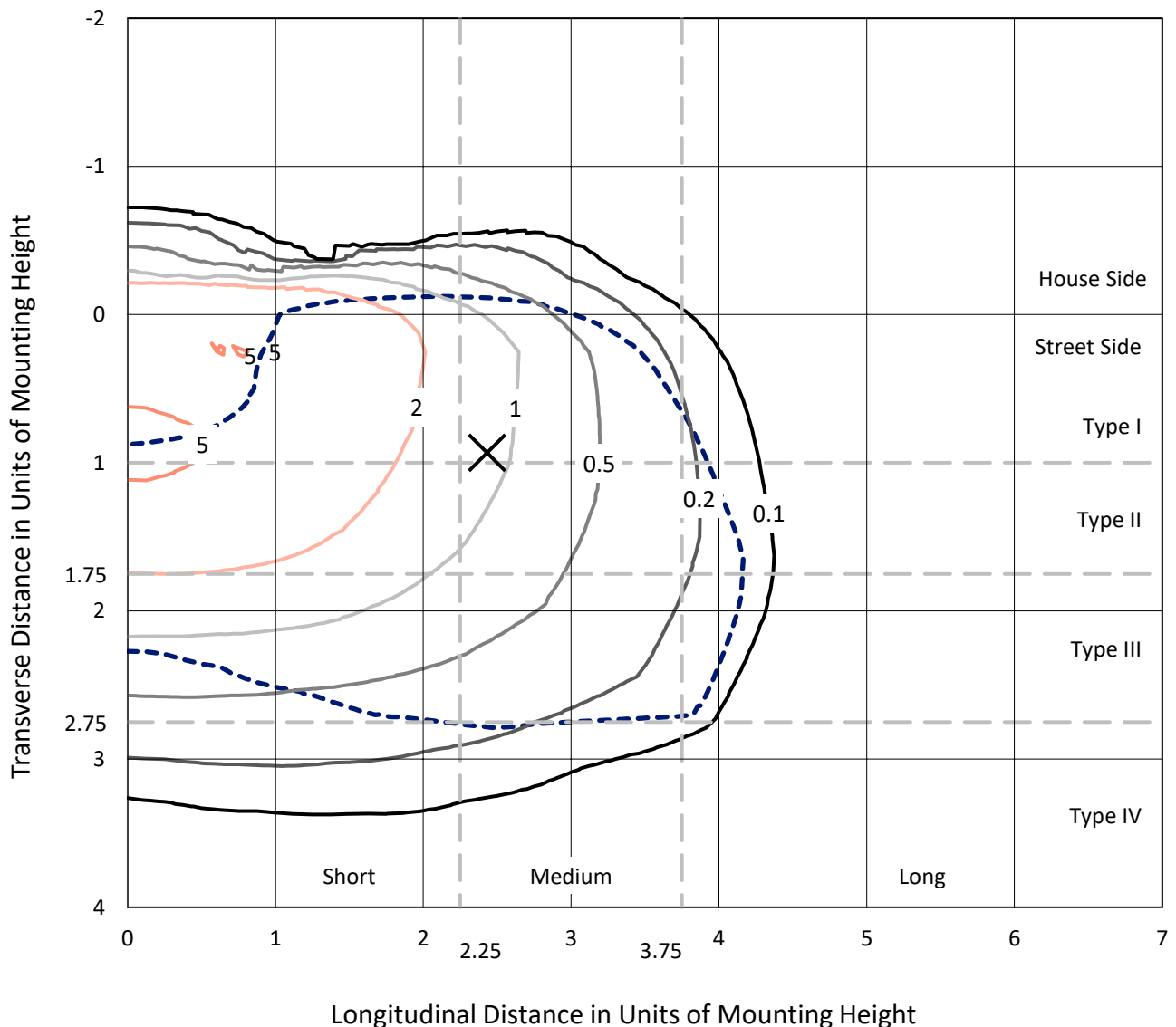
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

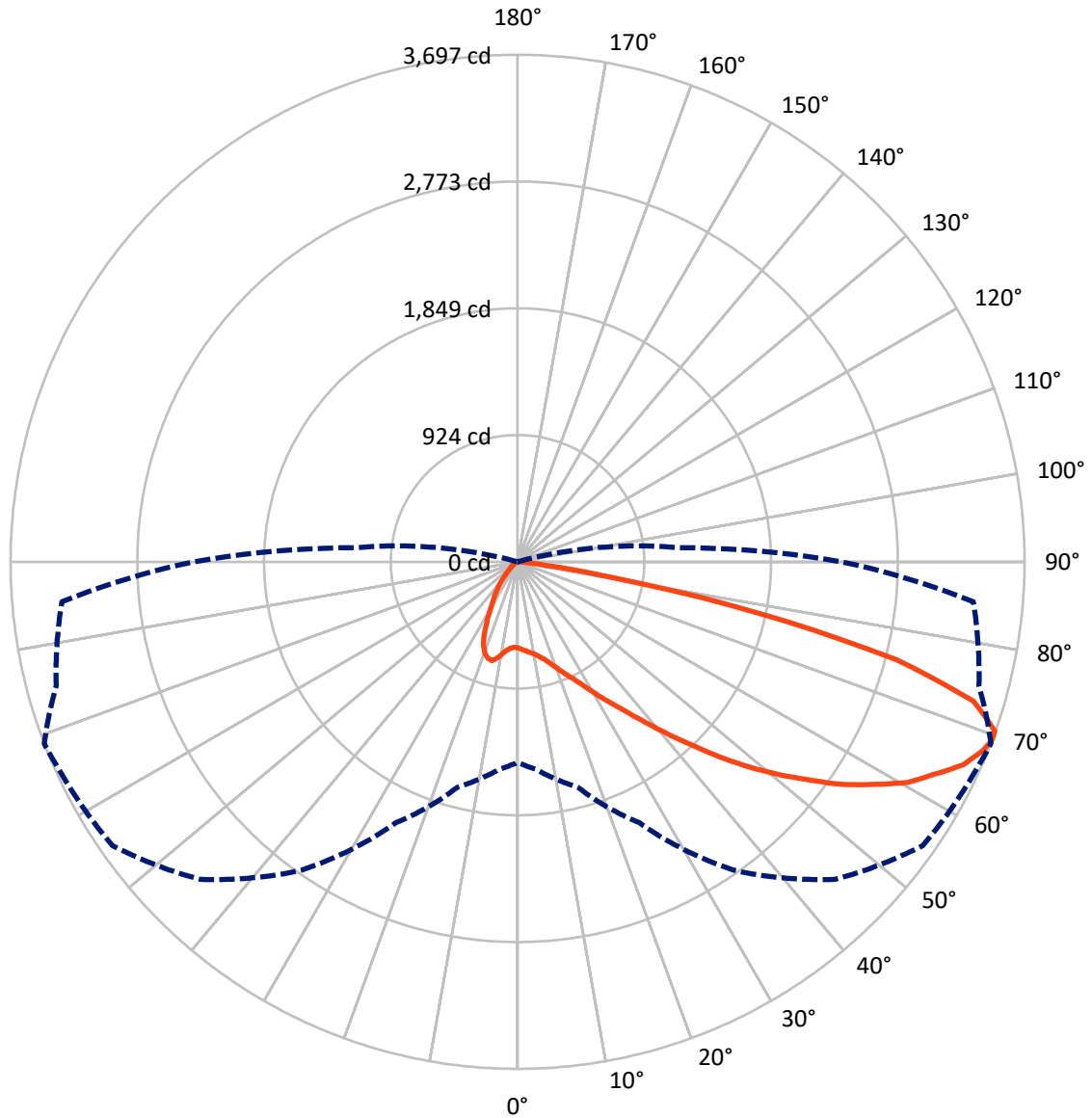
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.5 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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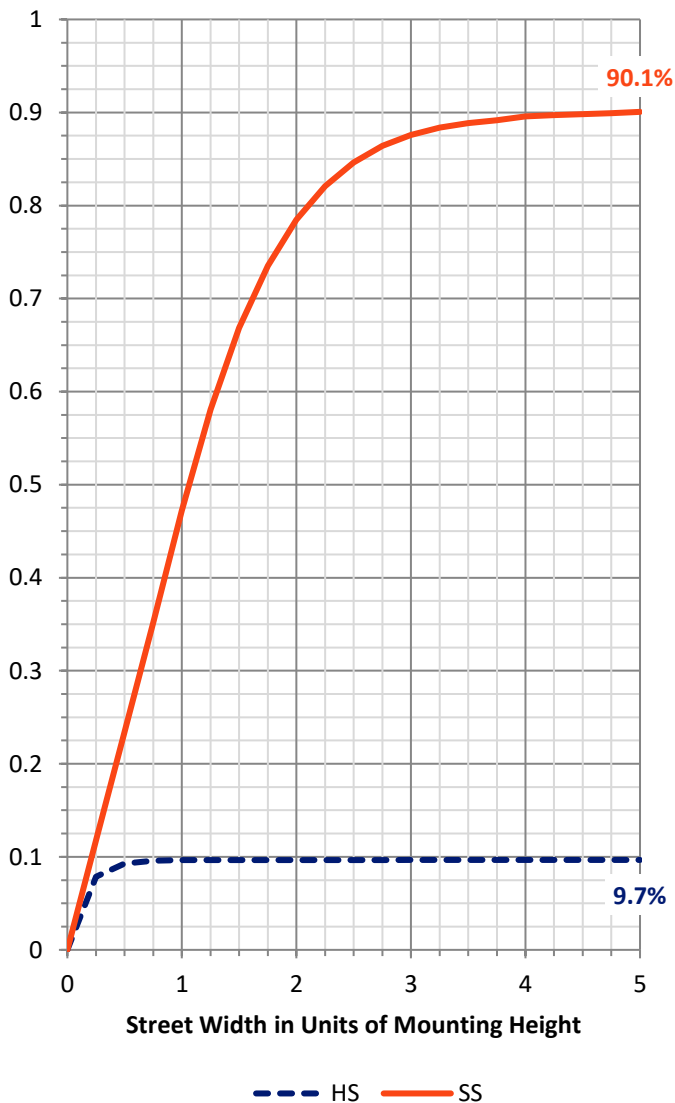
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	550.3	0.0	550.3
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	5096.8	0.0	5096.8
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	5647.0	0.0	5647.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.9	1.1
10°-20°	158.5	2.8
20°-30°	263.8	4.7
30°-40°	475.0	8.4
40°-50°	861.3	15.3
50°-60°	1346.0	23.8
60°-70°	1557.3	27.6
70°-80°	870.9	15.4
80°-90°	54.4	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°	5647.0	100.0
0°-180°	5647.0	100.0

**Coefficient of Utilization**

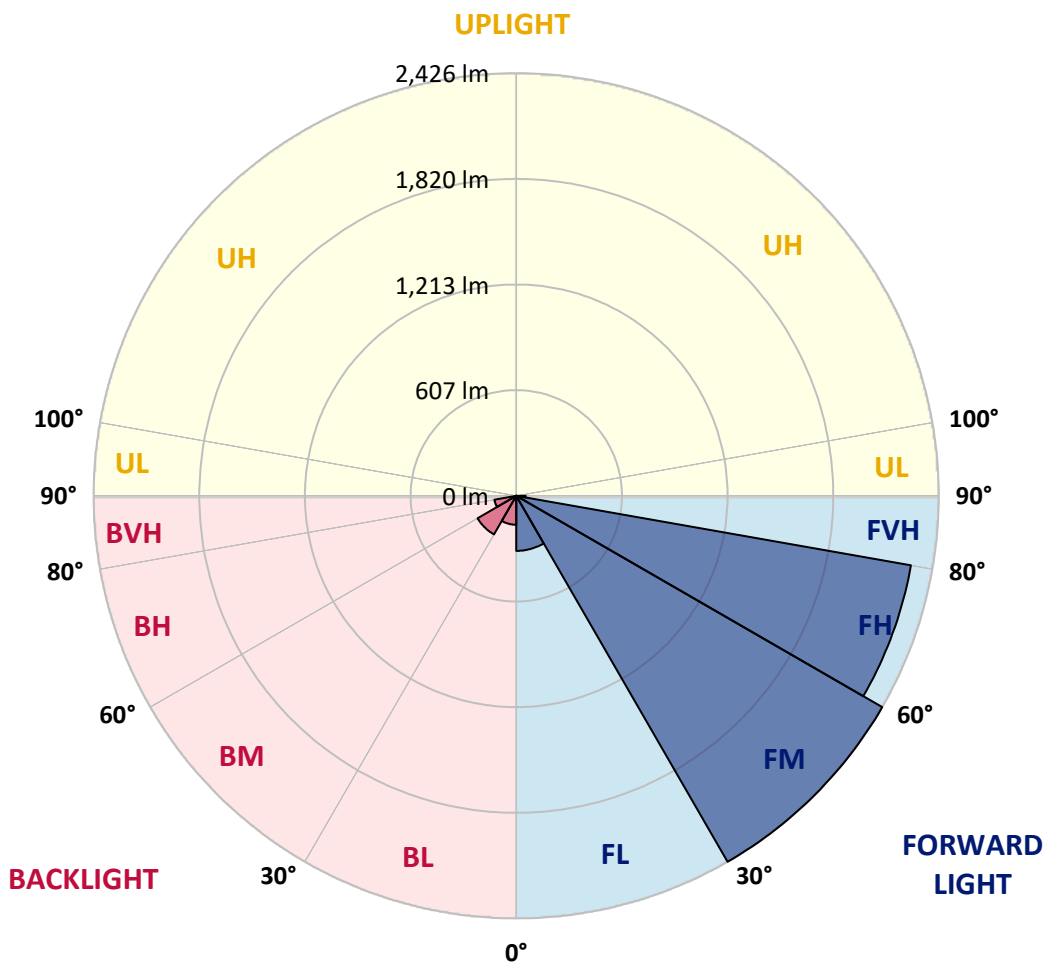


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.9	5.6			
FM (30°-60°)	2426.1	43.0			
FH (60°-80°)	2300.7	40.7			G2/5000
FVH (80°-90°)	54.0	1.0			G1/100
BL (0°-30°)	166.3	2.9	B1/500		
BM (30°-60°)	256.2	4.5	B1/1000		
BH (60°-80°)	127.4	2.3	B1/500		G1/500
BVH (80°-90°)	0.4	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°	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1
2.5°	650.7	650.7	650.7	646.9	648.8	646.9	645.1	639.4	641.3	639.4	633.8
5°	628.1	630.0	635.7	639.4	648.8	652.6	654.5	654.5	652.6	648.8	645.1
7.5°	584.9	584.9	590.5	601.8	620.6	641.3	658.2	667.6	669.5	669.5	663.9
10°	573.6	573.6	581.1	588.6	607.5	631.9	658.2	680.8	684.6	688.3	686.4
12.5°	568.0	569.8	577.4	590.5	615.0	637.5	665.8	697.7	709.0	718.4	720.3
15°	575.5	575.5	583.0	596.2	624.4	656.3	692.1	727.8	739.1	752.3	761.7
17.5°	586.8	590.5	594.3	607.5	633.8	673.3	720.3	767.3	780.5	797.4	804.9
20°	605.6	605.6	609.3	620.6	648.8	695.8	761.7	818.1	829.4	840.7	850.1
22.5°	628.1	630.0	630.0	639.4	671.4	722.2	797.4	867.0	885.8	891.4	895.2
25°	695.8	692.1	678.9	673.3	697.7	752.3	840.7	925.3	946.0	951.6	944.1
27.5°	836.9	821.8	786.1	748.5	744.7	799.3	899.0	998.6	1021.2	1023.1	996.7
30°	1013.7	1015.6	957.3	876.4	821.8	850.1	962.9	1090.8	1113.3	1103.9	1062.6
32.5°	1231.8	1222.4	1179.2	1062.6	953.5	929.0	1032.5	1186.7	1213.0	1198.0	1143.4
35°	1418.0	1423.7	1371.0	1267.6	1130.3	1051.3	1117.1	1293.9	1325.9	1299.5	1231.8
37.5°	1574.1	1581.6	1549.7	1465.0	1342.8	1218.7	1228.1	1419.9	1463.1	1436.8	1352.2
40°	1747.1	1752.8	1739.6	1647.5	1538.4	1418.0	1376.6	1564.7	1623.0	1587.3	1498.9
42.5°	1937.1	1957.8	1935.2	1861.8	1749.0	1645.6	1583.5	1741.5	1799.8	1777.2	1658.7
45°	2196.6	2198.5	2172.2	2098.8	1982.2	1897.6	1822.4	1929.5	2004.8	1976.6	1837.4
47.5°	2388.4	2401.6	2386.5	2335.8	2241.7	2185.3	2081.9	2136.4	2215.4	2179.7	2021.7
50°	2535.1	2570.9	2557.7	2572.7	2525.7	2501.3	2343.3	2350.8	2427.9	2397.8	2209.8
52.5°	2616.0	2661.1	2664.9	2742.0	2781.5	2841.7	2597.2	2585.9	2634.8	2608.5	2401.6
55°	2604.7	2616.0	2710.0	2851.1	3005.3	3142.6	2845.4	2798.4	2866.1	2792.8	2604.7
57.5°	2495.6	2523.8	2689.3	2864.2	3136.9	3336.3	3059.8	3007.2	3063.6	2965.8	2813.5
60°	2339.5	2380.9	2593.4	2843.5	3214.0	3452.9	3268.6	3215.9	3266.7	3148.2	3050.4
62.5°	2198.5	2217.3	2412.9	2757.0	3168.9	3447.2	3430.3	3381.4	3411.5	3287.4	3253.5
65°	1997.3	2004.8	2198.5	2600.9	3069.2	3409.6	3518.7	3537.5	3569.5	3404.0	3398.3
67.5°	1686.9	1703.9	1895.7	2328.2	2903.7	3336.3	3588.3	3625.9	3663.5	3466.0	3424.7
69°	1463.1	1517.7	1702.0	2098.8	2743.9	3274.2	3607.1	3667.3	3697.4	3483.0	3336.3
70°	1280.7	1327.7	1540.3	1922.0	2602.8	3204.6	3620.3	3661.6	3691.7	3447.2	3191.5
72.5°	643.2	703.4	994.9	1403.0	2068.7	2886.8	3552.6	3507.4	3475.4	3170.8	2582.1
75°	248.2	257.6	426.9	799.3	1293.9	2119.5	3033.5	2948.9	2854.8	2405.4	1530.9
77.5°	137.3	135.4	186.2	353.6	551.0	1036.2	2051.8	1916.4	1786.6	1292.0	620.6
80°	58.3	62.1	80.9	169.3	289.6	359.2	996.7	885.8	705.2	410.0	148.6
82.5°	35.7	37.6	56.4	103.4	201.2	137.3	323.5	276.5	203.1	111.0	35.7
85°	11.3	13.2	39.5	69.6	97.8	56.4	73.3	63.9	56.4	47.0	11.3
87.5°	1.9	1.9	15.0	37.6	26.3	9.4	7.5	13.2	20.7	22.6	3.8
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°	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1	628.1
2.5°	631.9	628.1	624.4	622.5	622.5	618.7	616.9	615.0	615.0	613.1	613.1
5°	639.4	635.7	631.9	630.0	626.3	624.4	624.4	624.4	622.5	624.4	626.3
7.5°	658.2	652.6	650.7	648.8	648.8	643.2	633.8	609.3	584.9	577.4	569.8
10°	684.6	682.7	682.7	682.7	669.5	620.6	552.9	492.7	460.8	434.4	434.4
12.5°	722.2	722.2	720.3	714.6	646.9	528.5	423.1	332.9	280.2	250.1	253.9
15°	763.5	761.7	765.4	729.7	569.8	408.1	255.8	180.5	152.3	148.6	148.6
17.5°	806.8	810.6	806.8	690.2	468.3	252.0	152.3	137.3	133.5	133.5	133.5
20°	851.9	848.2	842.5	622.5	340.4	158.0	131.6	127.9	124.1	122.2	122.2
22.5°	897.1	893.3	855.7	536.0	212.5	129.8	124.1	116.6	111.0	109.1	109.1
25°	940.3	940.3	831.2	425.0	144.8	122.2	112.8	105.3	99.7	94.0	94.0
27.5°	994.9	998.6	791.8	297.1	122.2	112.8	101.6	90.3	82.7	79.0	79.0
30°	1056.9	1062.6	727.8	193.7	111.0	99.7	88.4	75.2	63.9	60.2	58.3
32.5°	1130.3	1135.9	654.5	127.9	99.7	86.5	73.3	56.4	45.1	43.3	41.4
35°	1224.3	1211.1	566.1	101.6	86.5	73.3	56.4	39.5	32.0	30.1	30.1
37.5°	1340.9	1312.7	464.5	88.4	73.3	58.3	41.4	26.3	20.7	20.7	18.8
40°	1474.4	1395.4	359.2	79.0	62.1	45.1	26.3	16.9	13.2	13.2	13.2
42.5°	1621.1	1465.0	255.8	69.6	50.8	32.0	16.9	9.4	7.5	7.5	7.5
45°	1790.4	1529.0	174.9	60.2	43.3	22.6	9.4	3.8	3.8	3.8	3.8
47.5°	1959.6	1570.3	116.6	52.7	32.0	13.2	5.6	1.9	1.9	1.9	1.9
50°	2130.8	1602.3	90.3	45.1	22.6	7.5	1.9	0.0	0.0	0.0	0.0
52.5°	2283.1	1624.9	73.3	37.6	15.0	5.6	1.9	0.0	0.0	0.0	0.0
55°	2414.8	1626.8	63.9	30.1	11.3	3.8	0.0	0.0	0.0	0.0	0.0
57.5°	2548.3	1611.7	54.5	22.6	7.5	1.9	0.0	0.0	0.0	0.0	0.0
60°	2629.2	1572.2	43.3	16.9	5.6	1.9	0.0	0.0	0.0	0.0	0.0
62.5°	2678.0	1506.4	33.9	11.3	3.8	1.9	0.0	0.0	0.0	0.0	0.0
65°	2649.8	1423.7	24.4	7.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0
67.5°	2518.2	1295.8	16.9	5.6	1.9	1.9	0.0	0.0	0.0	0.0	0.0
69°	2362.1	1179.2	15.0	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
70°	2224.8	1088.9	13.2	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	1656.9	701.5	11.3	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
75°	930.9	235.1	7.5	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	349.8	60.2	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	77.1	15.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)