

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: P594780

Luminaire Tested: **ISS-PA1E-727-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594780  
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: ISS-PA1E-727-U-T3-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA 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: 6633 lumens  
Efficiency: N/A  
Efficacy: 80.5 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

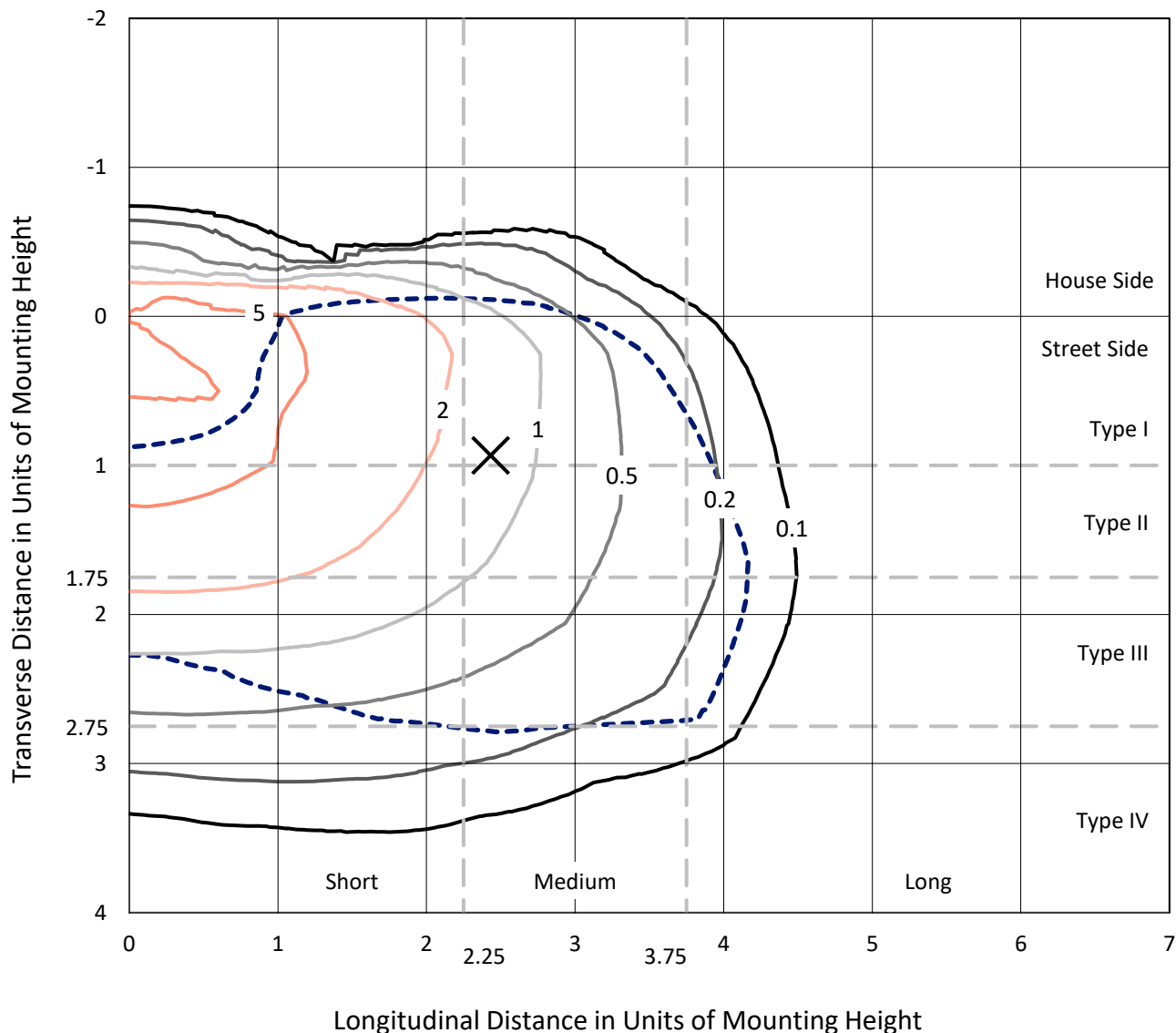
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

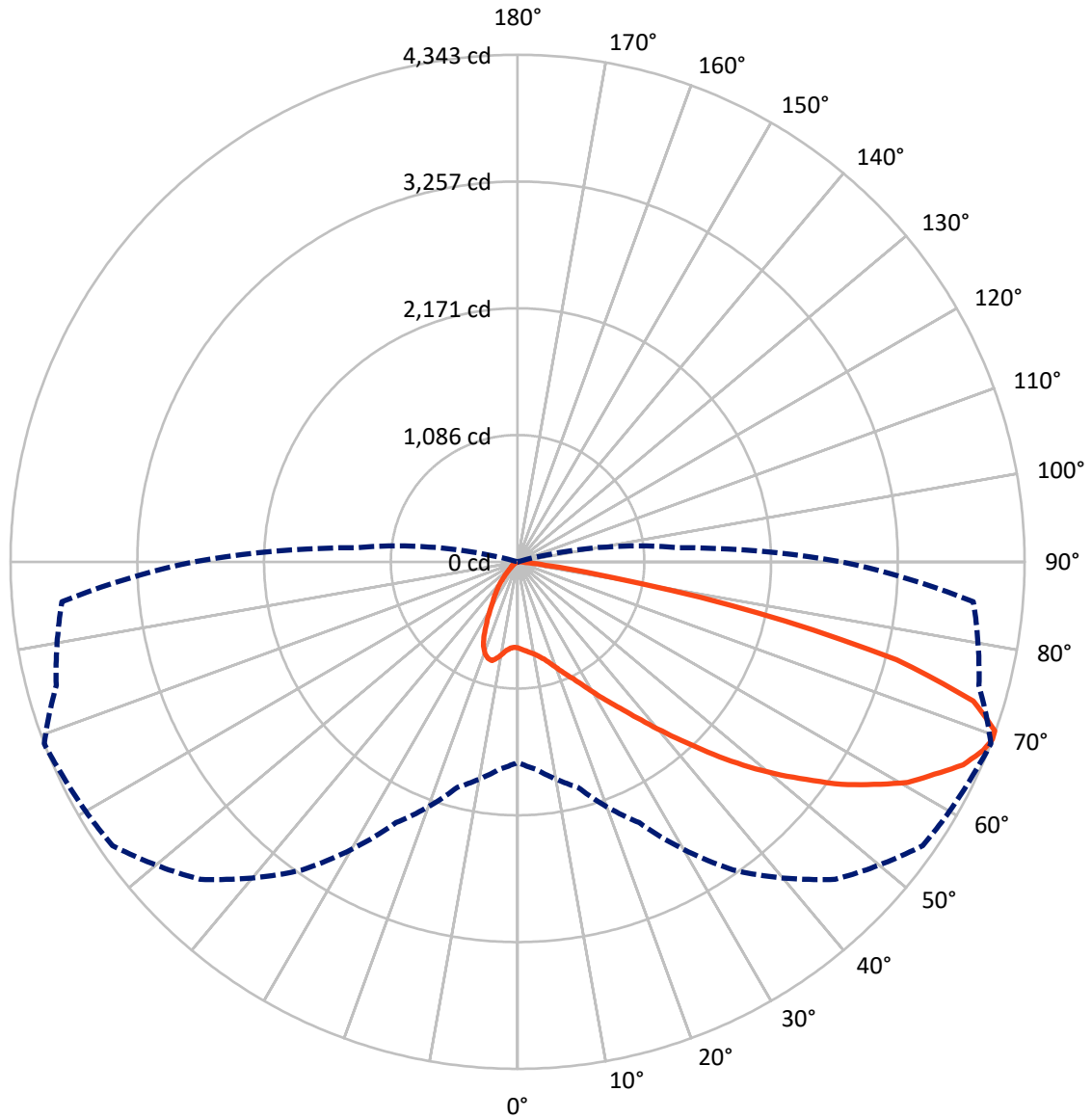
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.4 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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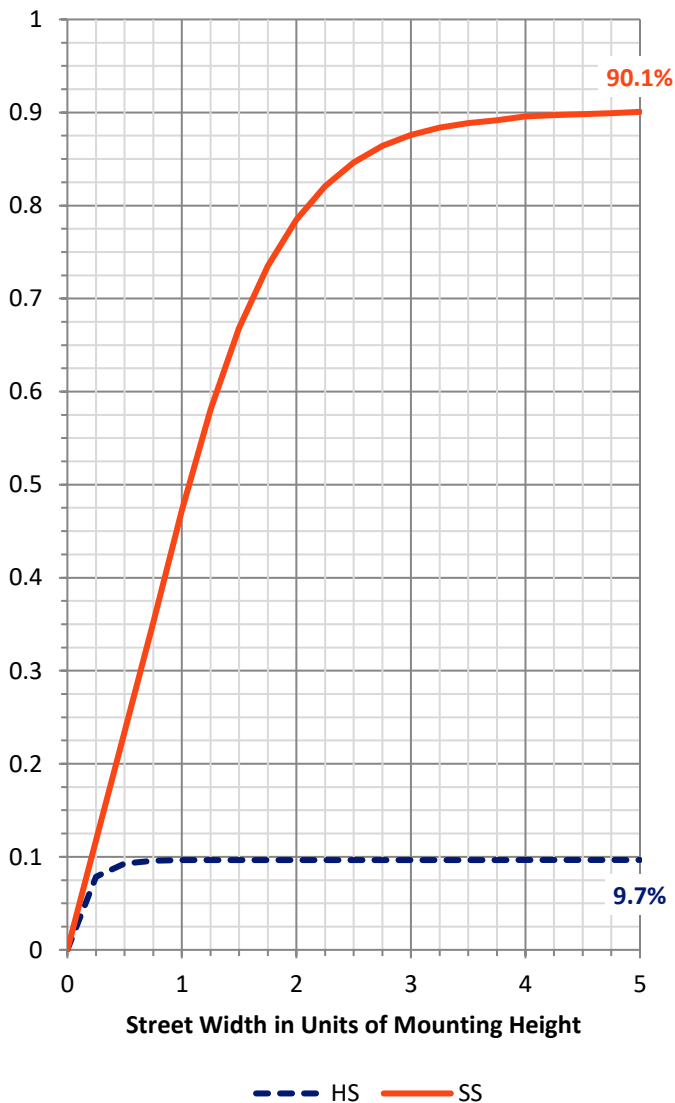
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	646.3	0.0	646.3
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	5986.7	0.0	5986.7
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	6633.0	0.0	6633.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	1.1
10°-20°	186.1	2.8
20°-30°	309.9	4.7
30°-40°	557.9	8.4
40°-50°	1011.7	15.3
50°-60°	1581.0	23.8
60°-70°	1829.2	27.6
70°-80°	1022.9	15.4
80°-90°	63.9	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°	6633.0	100.0
0°-180°	6633.0	100.0

**Coefficient of Utilization**

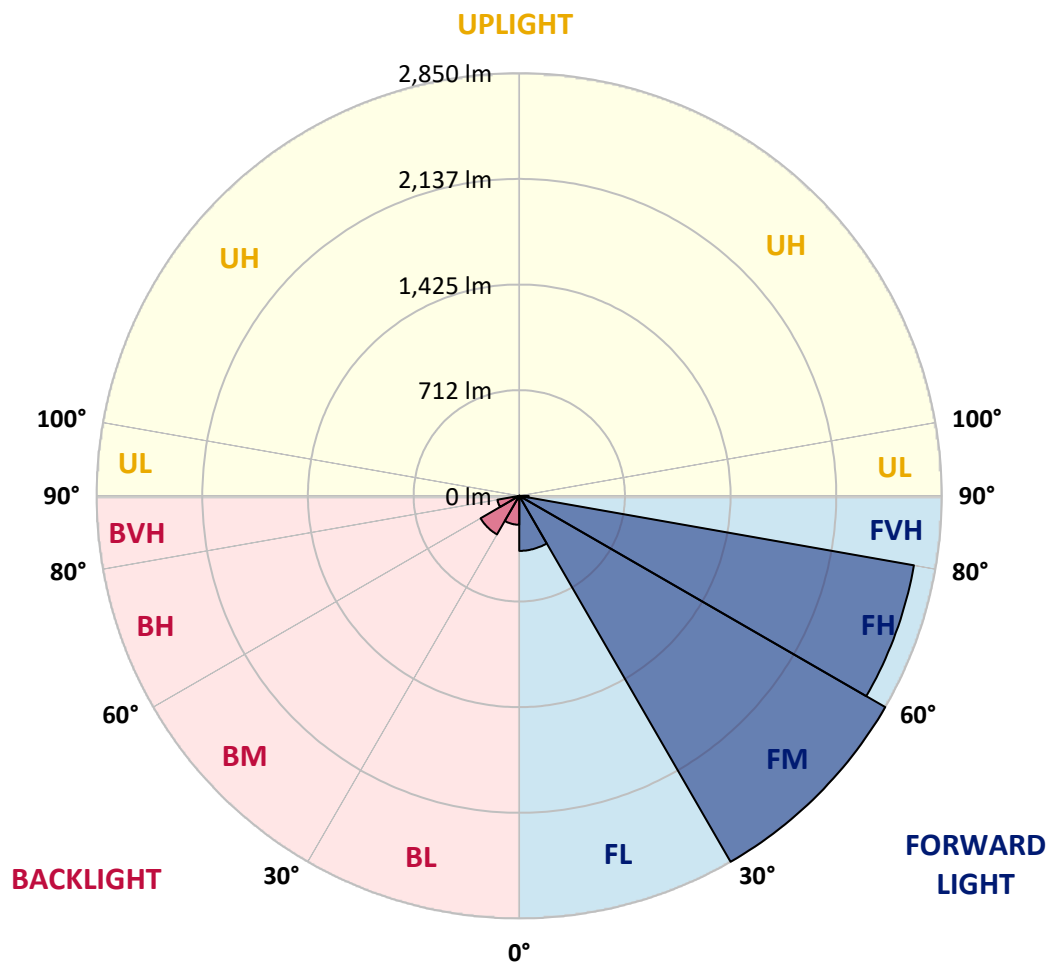


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.1	5.6			
FM (30°-60°)	2849.7	43.0			
FH (60°-80°)	2702.5	40.7			G2/5000
FVH (80°-90°)	63.4	1.0			G1/100
BL (0°-30°)	195.3	2.9	B1/500		
BM (30°-60°)	300.9	4.5	B1/1000		
BH (60°-80°)	149.6	2.3	B1/500		G1/500
BVH (80°-90°)	0.5	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°	737.8	737.8	737.8	737.8	737.8	737.8	737.8	737.8	737.8	737.8	737.8
2.5°	764.3	764.3	764.3	759.9	762.1	759.9	757.7	751.1	753.3	751.1	744.4
5°	737.8	740.0	746.7	751.1	762.1	766.5	768.7	768.7	766.5	762.1	757.7
7.5°	687.0	687.0	693.6	706.9	729.0	753.3	773.2	784.2	786.4	786.4	779.8
10°	673.8	673.8	682.6	691.4	713.5	742.2	773.2	799.7	804.1	808.5	806.3
12.5°	667.1	669.3	678.2	693.6	722.4	748.9	782.0	819.5	832.8	843.8	846.1
15°	676.0	676.0	684.8	700.3	733.4	770.9	812.9	854.9	868.1	883.6	894.7
17.5°	689.2	693.6	698.1	713.5	744.4	790.8	846.1	901.3	916.7	936.6	945.5
20°	711.3	711.3	715.7	729.0	762.1	817.3	894.7	960.9	974.2	987.4	998.5
22.5°	737.8	740.0	740.0	751.1	788.6	848.3	936.6	1018.4	1040.5	1047.1	1051.5
25°	817.3	812.9	797.5	790.8	819.5	883.6	987.4	1086.8	1111.1	1117.8	1108.9
27.5°	983.0	965.3	923.4	879.2	874.8	938.8	1055.9	1173.0	1199.5	1201.7	1170.8
30°	1190.7	1192.9	1124.4	1029.4	965.3	998.5	1131.0	1281.2	1307.7	1296.7	1248.1
32.5°	1446.9	1435.9	1385.1	1248.1	1120.0	1091.3	1212.8	1393.9	1424.8	1407.1	1343.1
35°	1665.6	1672.2	1610.4	1488.9	1327.6	1234.8	1312.2	1519.8	1557.4	1526.4	1446.9
37.5°	1849.0	1857.8	1820.2	1720.8	1577.2	1431.4	1442.5	1667.8	1718.6	1687.7	1588.3
40°	2052.2	2058.8	2043.3	1935.1	1807.0	1665.6	1617.0	1837.9	1906.4	1864.4	1760.6
42.5°	2275.3	2299.6	2273.1	2186.9	2054.4	1932.9	1860.0	2045.6	2114.0	2087.5	1948.4
45°	2580.1	2582.4	2551.4	2465.3	2328.3	2228.9	2140.5	2266.5	2354.8	2321.7	2158.2
47.5°	2805.5	2820.9	2803.3	2743.6	2633.2	2566.9	2445.4	2509.5	2602.2	2560.3	2374.7
50°	2977.8	3019.7	3004.3	3021.9	2966.7	2938.0	2752.4	2761.3	2851.9	2816.5	2595.6
52.5°	3072.8	3125.8	3130.2	3220.8	3267.1	3337.8	3050.7	3037.4	3094.8	3063.9	2820.9
55°	3059.5	3072.8	3183.2	3348.9	3530.0	3691.3	3342.3	3287.0	3366.6	3280.4	3059.5
57.5°	2931.4	2964.5	3158.9	3364.3	3684.7	3918.8	3594.1	3532.2	3598.5	3483.6	3304.7
60°	2748.0	2796.6	3046.2	3340.0	3775.2	4055.8	3839.3	3777.4	3837.1	3697.9	3583.0
62.5°	2582.4	2604.4	2834.2	3238.4	3722.2	4049.1	4029.3	3971.8	4007.2	3861.4	3821.6
65°	2346.0	2354.8	2582.4	3055.1	3605.1	4005.0	4133.1	4155.2	4192.7	3998.3	3991.7
67.5°	1981.5	2001.4	2226.7	2734.8	3410.7	3918.8	4214.8	4259.0	4303.2	4071.2	4022.6
69°	1718.6	1782.7	1999.2	2465.3	3223.0	3845.9	4236.9	4307.6	4342.9	4091.1	3918.8
70°	1504.3	1559.6	1809.2	2257.6	3057.3	3764.2	4252.4	4301.0	4336.3	4049.1	3748.7
72.5°	755.5	826.2	1168.6	1647.9	2429.9	3390.9	4172.8	4119.8	4082.3	3724.4	3033.0
75°	291.6	302.6	501.4	938.8	1519.8	2489.6	3563.2	3463.8	3353.3	2825.3	1798.1
77.5°	161.3	159.0	218.7	415.3	647.2	1217.2	2410.0	2251.0	2098.6	1517.6	729.0
80°	68.5	72.9	95.0	198.8	340.2	421.9	1170.8	1040.5	828.4	481.6	174.5
82.5°	42.0	44.2	66.3	121.5	236.4	161.3	380.0	324.7	238.6	130.3	42.0
85°	13.3	15.5	46.4	81.7	114.9	66.3	86.2	75.1	66.3	55.2	13.3
87.5°	2.2	2.2	17.7	44.2	30.9	11.0	8.8	15.5	24.3	26.5	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°	737.8	737.8	737.8	737.8	737.8	737.8	737.8	737.8	737.8	737.8	737.8
2.5°	742.2	737.8	733.4	731.2	731.2	726.8	724.6	722.4	722.4	720.1	720.1
5°	751.1	746.7	742.2	740.0	735.6	733.4	733.4	733.4	731.2	733.4	735.6
7.5°	773.2	766.5	764.3	762.1	762.1	755.5	744.4	715.7	687.0	678.2	669.3
10°	804.1	801.9	801.9	801.9	786.4	729.0	649.5	578.8	541.2	510.3	510.3
12.5°	848.3	848.3	846.1	839.4	759.9	620.7	497.0	391.0	329.1	293.8	298.2
15°	896.9	894.7	899.1	857.1	669.3	479.4	300.4	212.1	178.9	174.5	174.5
17.5°	947.7	952.1	947.7	810.7	550.0	296.0	178.9	161.3	156.8	156.8	156.8
20°	1000.7	996.3	989.6	731.2	399.8	185.6	154.6	150.2	145.8	143.6	143.6
22.5°	1053.7	1049.3	1005.1	629.6	249.6	152.4	145.8	137.0	130.3	128.1	128.1
25°	1104.5	1104.5	976.4	499.2	170.1	143.6	132.5	123.7	117.1	110.5	110.5
27.5°	1168.6	1173.0	930.0	349.0	143.6	132.5	119.3	106.0	97.2	92.8	92.8
30°	1241.5	1248.1	854.9	227.5	130.3	117.1	103.8	88.4	75.1	70.7	68.5
32.5°	1327.6	1334.3	768.7	150.2	117.1	101.6	86.2	66.3	53.0	50.8	48.6
35°	1438.1	1422.6	664.9	119.3	101.6	86.2	66.3	46.4	37.6	35.3	35.3
37.5°	1575.0	1541.9	545.6	103.8	86.2	68.5	48.6	30.9	24.3	24.3	22.1
40°	1731.9	1639.1	421.9	92.8	72.9	53.0	30.9	19.9	15.5	15.5	15.5
42.5°	1904.2	1720.8	300.4	81.7	59.6	37.6	19.9	11.0	8.8	8.8	8.8
45°	2103.0	1795.9	205.4	70.7	50.8	26.5	11.0	4.4	4.4	4.4	4.4
47.5°	2301.8	1844.5	137.0	61.9	37.6	15.5	6.6	2.2	2.2	2.2	2.2
50°	2502.8	1882.1	106.0	53.0	26.5	8.8	2.2	0.0	0.0	0.0	0.0
52.5°	2681.8	1908.6	86.2	44.2	17.7	6.6	2.2	0.0	0.0	0.0	0.0
55°	2836.4	1910.8	75.1	35.3	13.3	4.4	0.0	0.0	0.0	0.0	0.0
57.5°	2993.2	1893.1	64.1	26.5	8.8	2.2	0.0	0.0	0.0	0.0	0.0
60°	3088.2	1846.7	50.8	19.9	6.6	2.2	0.0	0.0	0.0	0.0	0.0
62.5°	3145.7	1769.4	39.8	13.3	4.4	2.2	0.0	0.0	0.0	0.0	0.0
65°	3112.5	1672.2	28.7	8.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	2957.9	1522.0	19.9	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0
69°	2774.5	1385.1	17.7	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0
70°	2613.3	1279.0	15.5	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	1946.2	824.0	13.3	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0
75°	1093.5	276.1	8.8	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	410.9	70.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.6	17.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	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)