

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: P594231

Luminaire Tested: **ISC-PA1D-740-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594231  
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: ISC-PA1D-740-U-T3-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 4000K, 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: 6460 lumens  
Efficiency: N/A  
Efficacy: 102.5 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

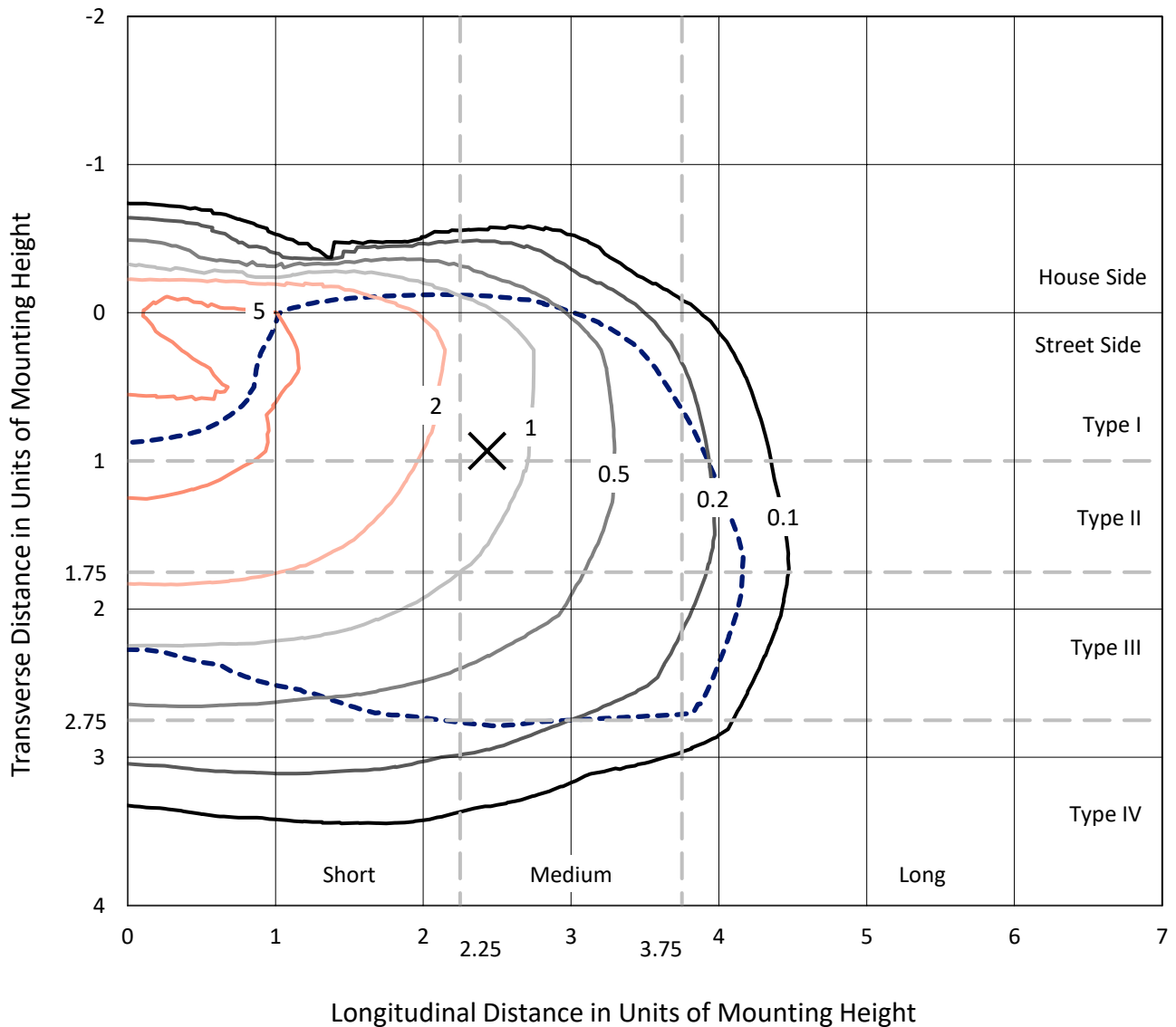
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

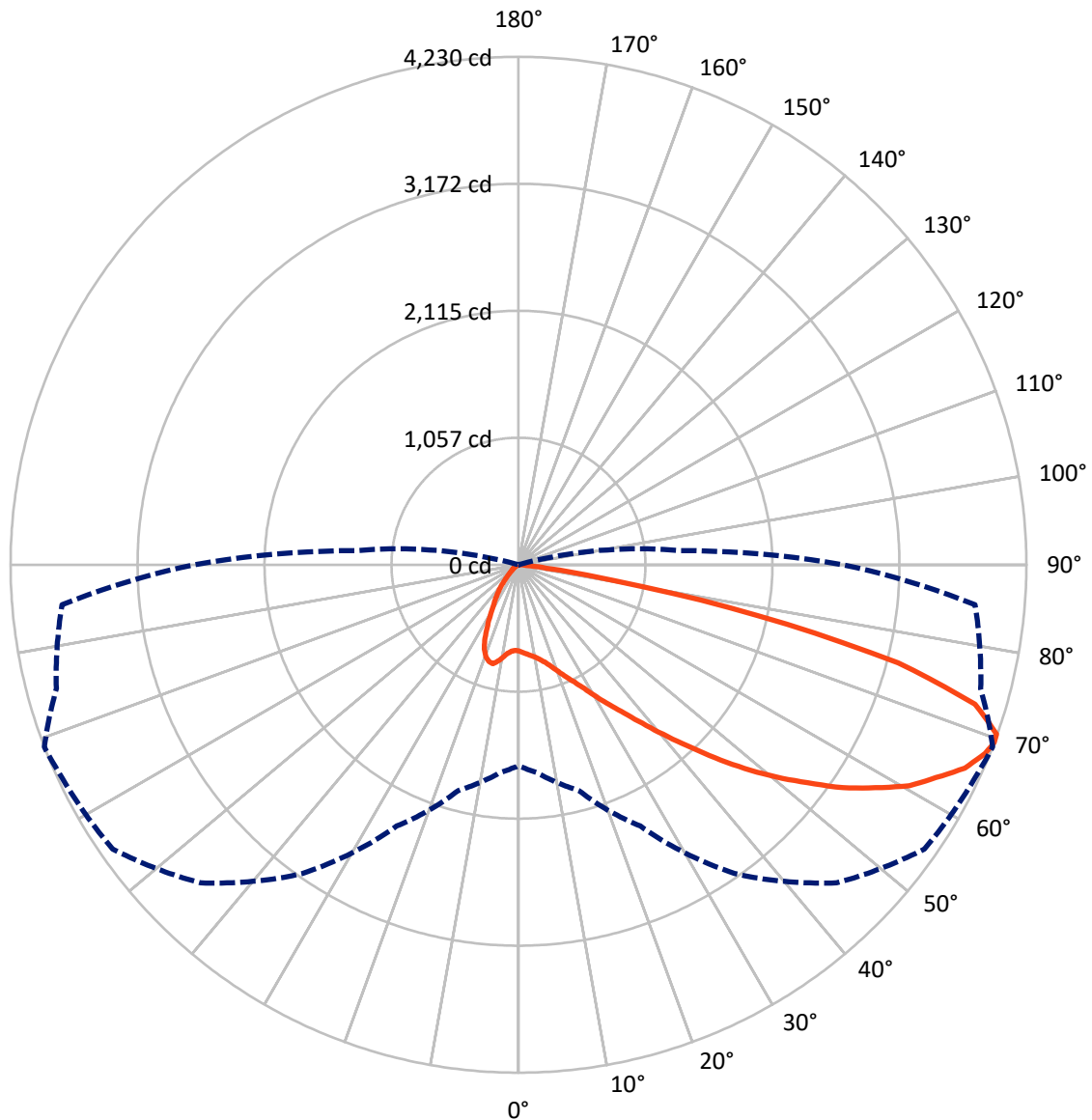
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.2 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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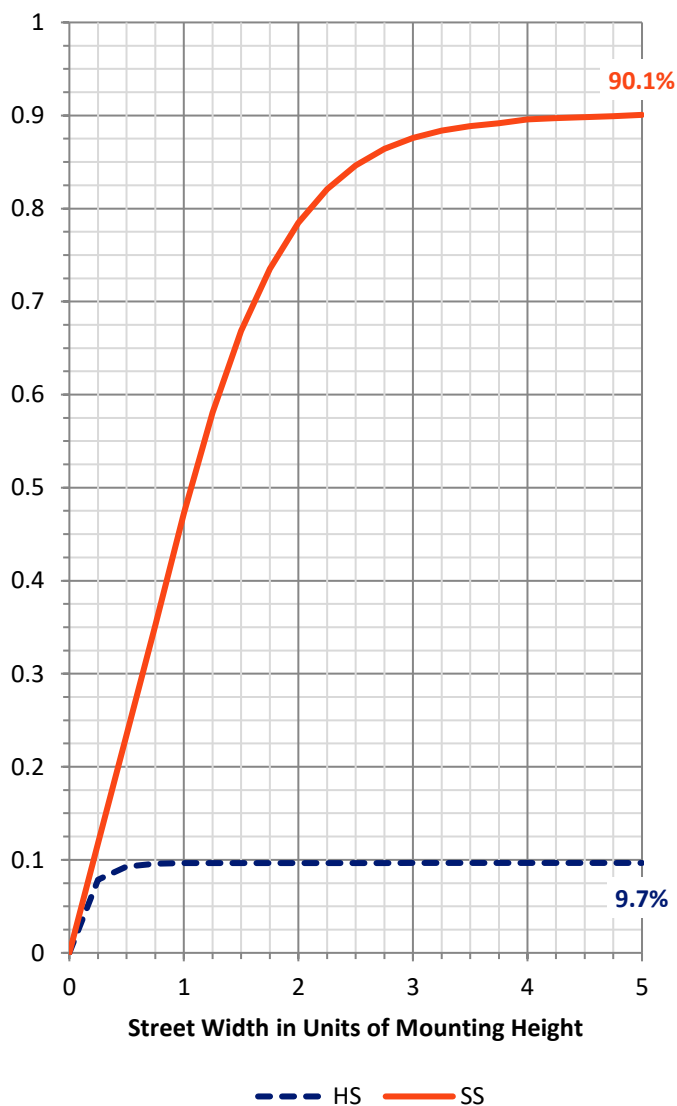
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	629.5	0.0	629.5
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	5830.5	0.0	5830.5
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	6460.0	0.0	6460.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	1.1
10°-20°	181.3	2.8
20°-30°	301.8	4.7
30°-40°	543.4	8.4
40°-50°	985.3	15.3
50°-60°	1539.8	23.8
60°-70°	1781.5	27.6
70°-80°	996.3	15.4
80°-90°	62.2	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°	6460.0	100.0
0°-180°	6460.0	100.0

**Coefficient of Utilization**

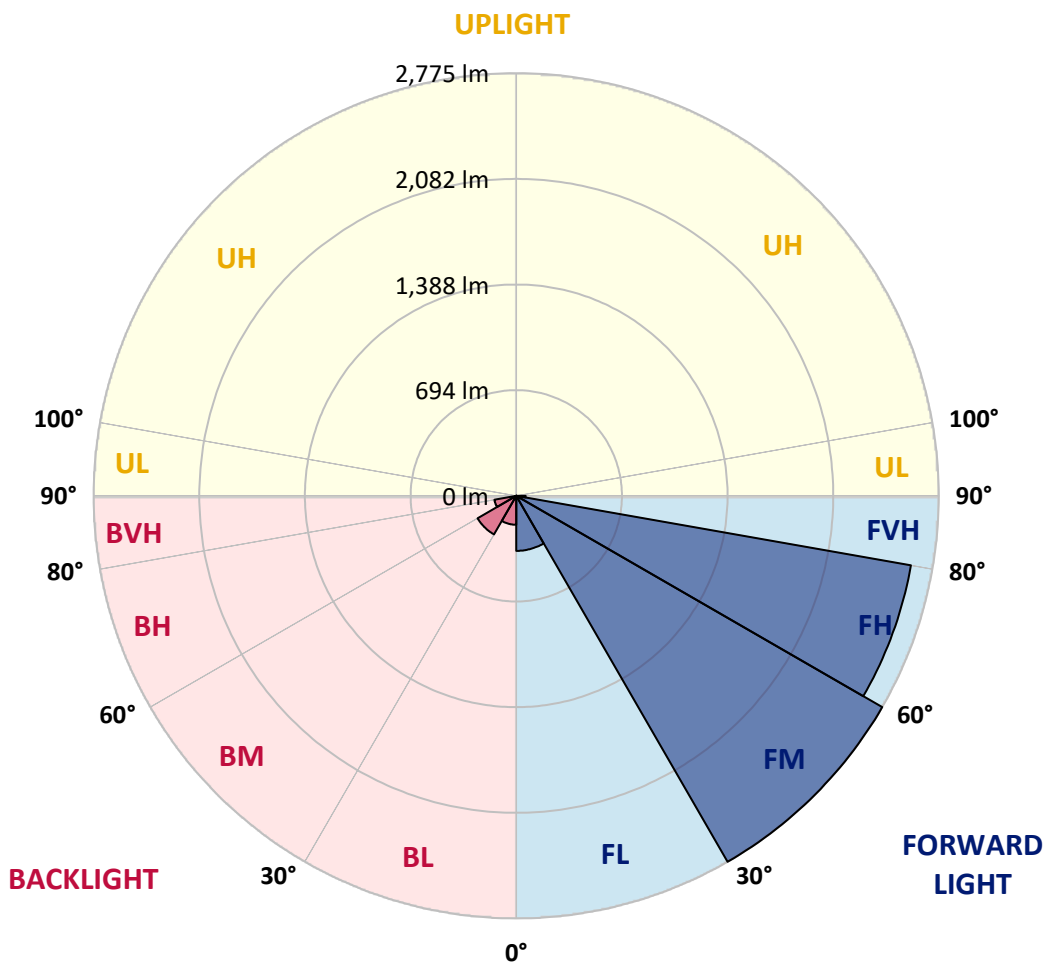


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.4	5.6			
FM (30°-60°)	2775.4	43.0			
FH (60°-80°)	2632.0	40.7			G2/5000
FVH (80°-90°)	61.7	1.0			G1/100
BL (0°-30°)	190.2	2.9	B1/500		
BM (30°-60°)	293.0	4.5	B1/1000		
BH (60°-80°)	145.8	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°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6
2.5°	744.4	744.4	744.4	740.1	742.2	740.1	737.9	731.5	733.6	731.5	725.0
5°	718.6	720.7	727.2	731.5	742.2	746.5	748.7	748.7	746.5	742.2	737.9
7.5°	669.1	669.1	675.5	688.5	710.0	733.6	753.0	763.8	765.9	765.9	759.4
10°	656.2	656.2	664.8	673.4	694.9	722.9	753.0	778.8	783.1	787.4	785.3
12.5°	649.7	651.9	660.5	675.5	703.5	729.3	761.6	798.2	811.1	821.8	824.0
15°	658.3	658.3	666.9	682.0	714.3	750.8	791.7	832.6	845.5	860.6	871.3
17.5°	671.2	675.5	679.8	694.9	725.0	770.2	824.0	877.8	892.8	912.2	920.8
20°	692.8	692.8	697.1	710.0	742.2	796.0	871.3	935.9	948.8	961.7	972.4
22.5°	718.6	720.7	720.7	731.5	768.1	826.1	912.2	991.8	1013.3	1019.8	1024.1
25°	796.0	791.7	776.7	770.2	798.2	860.6	961.7	1058.5	1082.2	1088.6	1080.0
27.5°	957.4	940.2	899.3	856.3	852.0	914.3	1028.4	1142.4	1168.2	1170.4	1140.2
30°	1159.6	1161.8	1095.1	1002.6	940.2	972.4	1101.5	1247.8	1273.6	1262.9	1215.5
32.5°	1409.2	1398.4	1348.9	1215.5	1090.8	1062.8	1181.1	1357.5	1387.7	1370.4	1308.1
35°	1622.2	1628.6	1568.4	1450.1	1293.0	1202.6	1277.9	1480.2	1516.7	1486.6	1409.2
37.5°	1800.7	1809.3	1772.8	1675.9	1536.1	1394.1	1404.9	1624.3	1673.8	1643.7	1546.9
40°	1998.7	2005.1	1990.1	1884.6	1759.9	1622.2	1574.8	1790.0	1856.7	1815.8	1714.7
42.5°	2216.0	2239.6	2213.8	2129.9	2000.8	1882.5	1811.5	1992.2	2058.9	2033.1	1897.5
45°	2512.8	2515.0	2484.9	2401.0	2267.6	2170.8	2084.7	2207.3	2293.4	2261.1	2101.9
47.5°	2732.3	2747.4	2730.1	2672.1	2564.5	2499.9	2381.6	2444.0	2534.4	2493.5	2312.8
50°	2900.1	2941.0	2925.9	2943.1	2889.3	2861.4	2680.7	2689.3	2777.5	2743.0	2527.9
52.5°	2992.6	3044.2	3048.5	3136.8	3181.9	3250.8	2971.1	2958.2	3014.1	2984.0	2747.4
55°	2979.7	2992.6	3100.2	3261.5	3438.0	3595.0	3255.1	3201.3	3278.7	3194.8	2979.7
57.5°	2854.9	2887.2	3076.5	3276.6	3588.6	3816.6	3500.3	3440.1	3504.6	3392.8	3218.5
60°	2676.4	2723.7	2966.8	3252.9	3676.8	3950.0	3739.2	3678.9	3737.0	3601.5	3489.6
62.5°	2515.0	2536.5	2760.3	3154.0	3625.1	3943.5	3924.2	3868.2	3902.7	3760.7	3721.9
65°	2284.8	2293.4	2515.0	2975.4	3511.1	3900.5	4025.3	4046.8	4083.4	3894.1	3887.6
67.5°	1929.8	1949.2	2168.6	2663.4	3321.8	3816.6	4104.9	4147.9	4190.9	3965.0	3917.7
69°	1673.8	1736.2	1947.0	2401.0	3138.9	3745.6	4126.4	4195.2	4229.7	3984.4	3816.6
70°	1465.1	1518.9	1762.0	2198.7	2977.6	3666.0	4141.5	4188.8	4223.2	3943.5	3650.9
72.5°	735.8	804.6	1138.1	1605.0	2366.6	3302.4	4064.0	4012.4	3975.8	3627.3	2953.9
75°	284.0	294.7	488.4	914.3	1480.2	2424.6	3470.2	3373.4	3265.8	2751.7	1751.2
77.5°	157.1	154.9	213.0	404.5	630.4	1185.4	2347.2	2192.3	2043.8	1478.0	710.0
80°	66.7	71.0	92.5	193.6	331.3	410.9	1140.2	1013.3	806.8	469.0	170.0
82.5°	40.9	43.0	64.5	118.3	230.2	157.1	370.0	316.3	232.4	126.9	40.9
85°	12.9	15.1	45.2	79.6	111.9	64.5	83.9	73.1	64.5	53.8	12.9
87.5°	2.2	2.2	17.2	43.0	30.1	10.8	8.6	15.1	23.7	25.8	4.3
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°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6
2.5°	722.9	718.6	714.3	712.1	712.1	707.8	705.7	703.5	703.5	701.4	701.4
5°	731.5	727.2	722.9	720.7	716.4	714.3	714.3	714.3	712.1	714.3	716.4
7.5°	753.0	746.5	744.4	742.2	742.2	735.8	725.0	697.1	669.1	660.5	651.9
10°	783.1	781.0	781.0	781.0	765.9	710.0	632.5	563.7	527.1	497.0	497.0
12.5°	826.1	826.1	824.0	817.5	740.1	604.5	484.1	380.8	320.6	286.1	290.4
15°	873.5	871.3	875.6	834.7	651.9	466.9	292.6	206.5	174.3	170.0	170.0
17.5°	923.0	927.3	923.0	789.6	535.7	288.3	174.3	157.1	152.8	152.8	152.8
20°	974.6	970.3	963.8	712.1	389.4	180.7	150.6	146.3	142.0	139.8	139.8
22.5°	1026.2	1021.9	978.9	613.2	243.1	148.4	142.0	133.4	126.9	124.8	124.8
25°	1075.7	1075.7	950.9	486.2	165.7	139.8	129.1	120.5	114.0	107.6	107.6
27.5°	1138.1	1142.4	905.7	339.9	139.8	129.1	116.2	103.3	94.7	90.4	90.4
30°	1209.1	1215.5	832.6	221.6	126.9	114.0	101.1	86.1	73.1	68.8	66.7
32.5°	1293.0	1299.5	748.7	146.3	114.0	99.0	83.9	64.5	51.6	49.5	47.3
35°	1400.6	1385.5	647.6	116.2	99.0	83.9	64.5	45.2	36.6	34.4	34.4
37.5°	1534.0	1501.7	531.4	101.1	83.9	66.7	47.3	30.1	23.7	23.7	21.5
40°	1686.7	1596.3	410.9	90.4	71.0	51.6	30.1	19.4	15.1	15.1	15.1
42.5°	1854.5	1675.9	292.6	79.6	58.1	36.6	19.4	10.8	8.6	8.6	8.6
45°	2048.1	1749.1	200.1	68.8	49.5	25.8	10.8	4.3	4.3	4.3	4.3
47.5°	2241.8	1796.4	133.4	60.2	36.6	15.1	6.5	2.2	2.2	2.2	2.2
50°	2437.5	1833.0	103.3	51.6	25.8	8.6	2.2	0.0	0.0	0.0	0.0
52.5°	2611.8	1858.8	83.9	43.0	17.2	6.5	2.2	0.0	0.0	0.0	0.0
55°	2762.4	1861.0	73.1	34.4	12.9	4.3	0.0	0.0	0.0	0.0	0.0
57.5°	2915.2	1843.8	62.4	25.8	8.6	2.2	0.0	0.0	0.0	0.0	0.0
60°	3007.7	1798.6	49.5	19.4	6.5	2.2	0.0	0.0	0.0	0.0	0.0
62.5°	3063.6	1723.3	38.7	12.9	4.3	2.2	0.0	0.0	0.0	0.0	0.0
65°	3031.3	1628.6	28.0	8.6	4.3	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	2880.7	1482.3	19.4	6.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
69°	2702.2	1348.9	17.2	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0
70°	2545.1	1245.7	15.1	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	1895.4	802.5	12.9	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0
75°	1064.9	268.9	8.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	400.2	68.8	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	88.2	17.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	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)