

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: P594364

Luminaire Tested: **ISC-PA1F-727-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594364  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1F-727-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7052 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

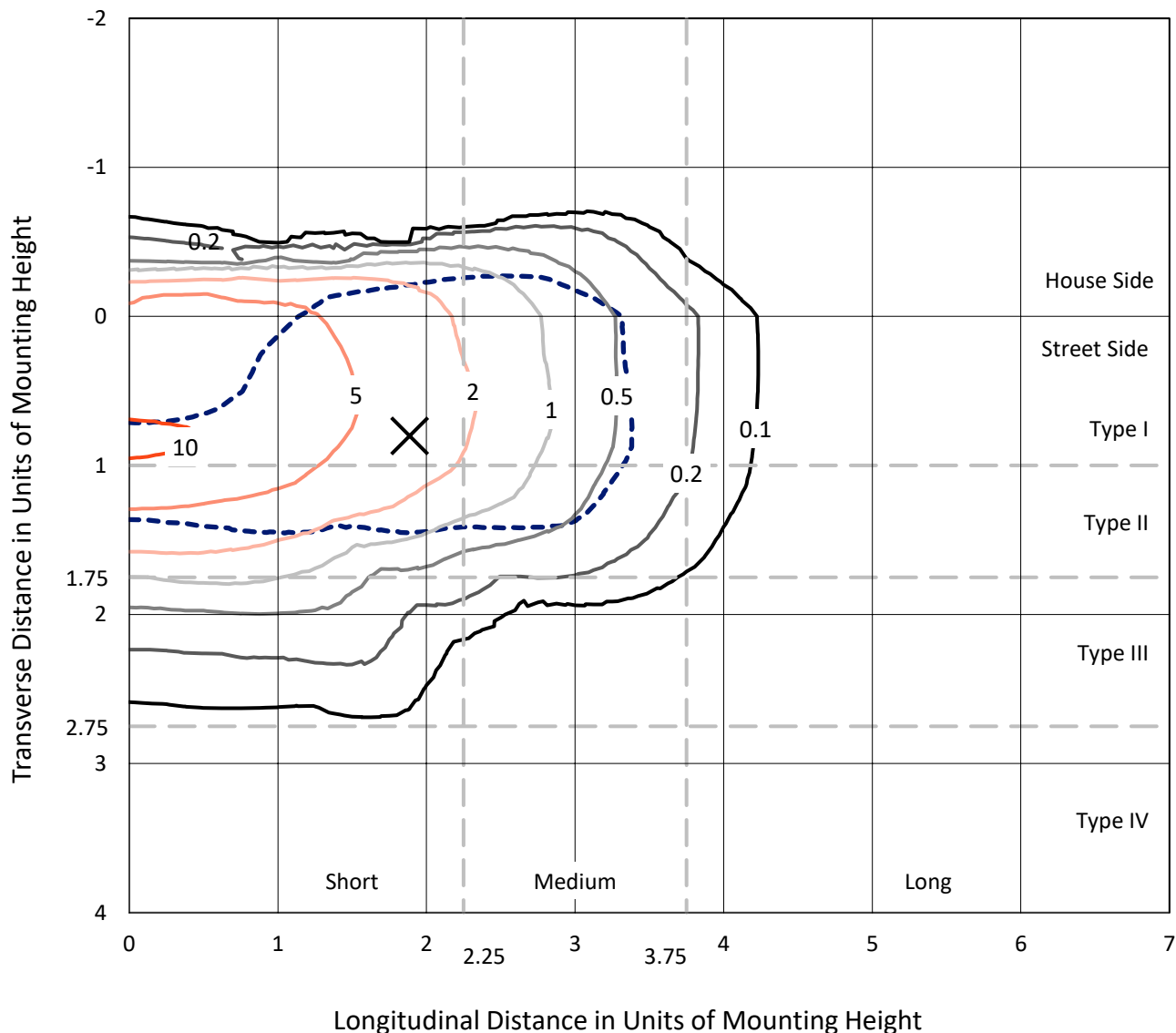
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

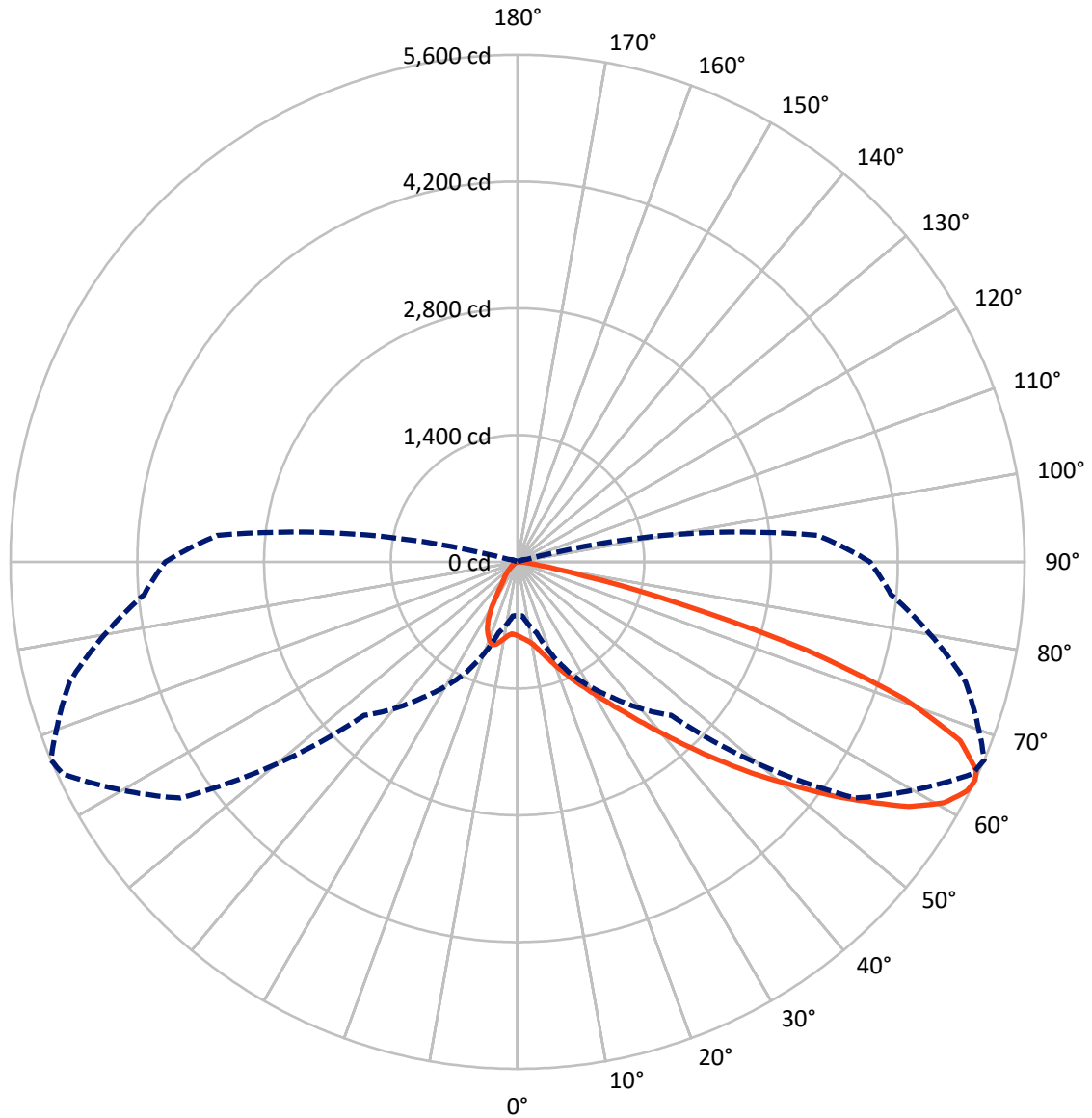
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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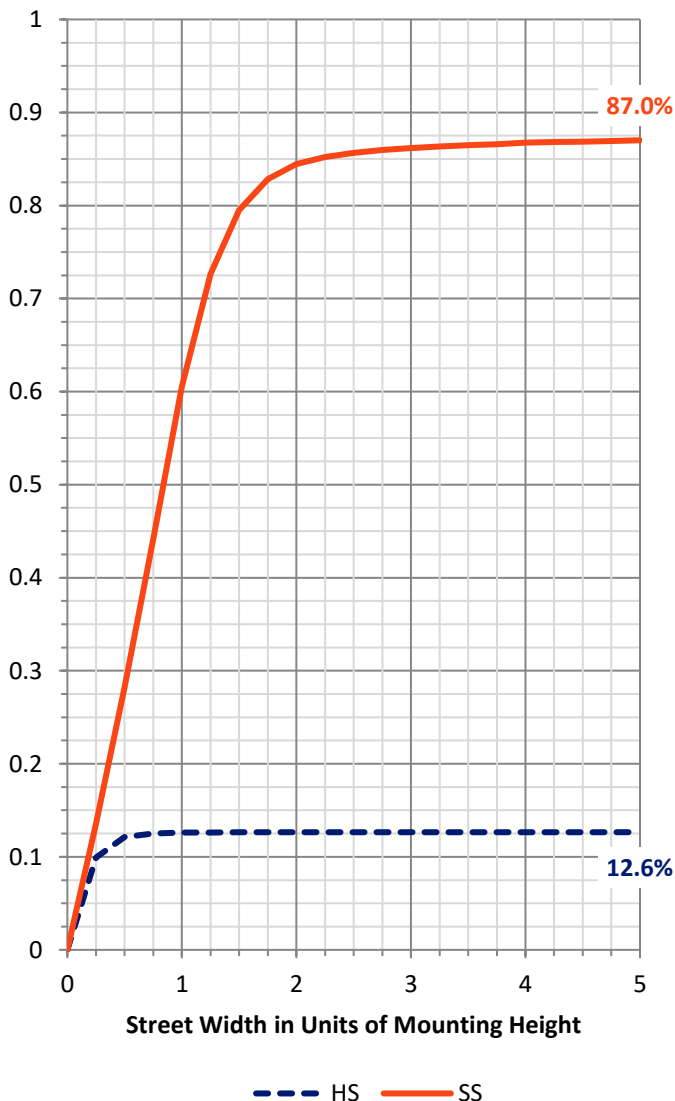
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	902.1	0.0	902.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	6149.9	0.0	6149.9
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	7052.0	0.0	7052.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.7	1.1
10°-20°	229.4	3.3
20°-30°	416.3	5.9
30°-40°	797.4	11.3
40°-50°	1469.7	20.8
50°-60°	1898.2	26.9
60°-70°	1554.8	22.0
70°-80°	571.6	8.1
80°-90°	36.9	0.5
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°	7052.0	100.0
0°-180°	7052.0	100.0

**Coefficient of Utilization**



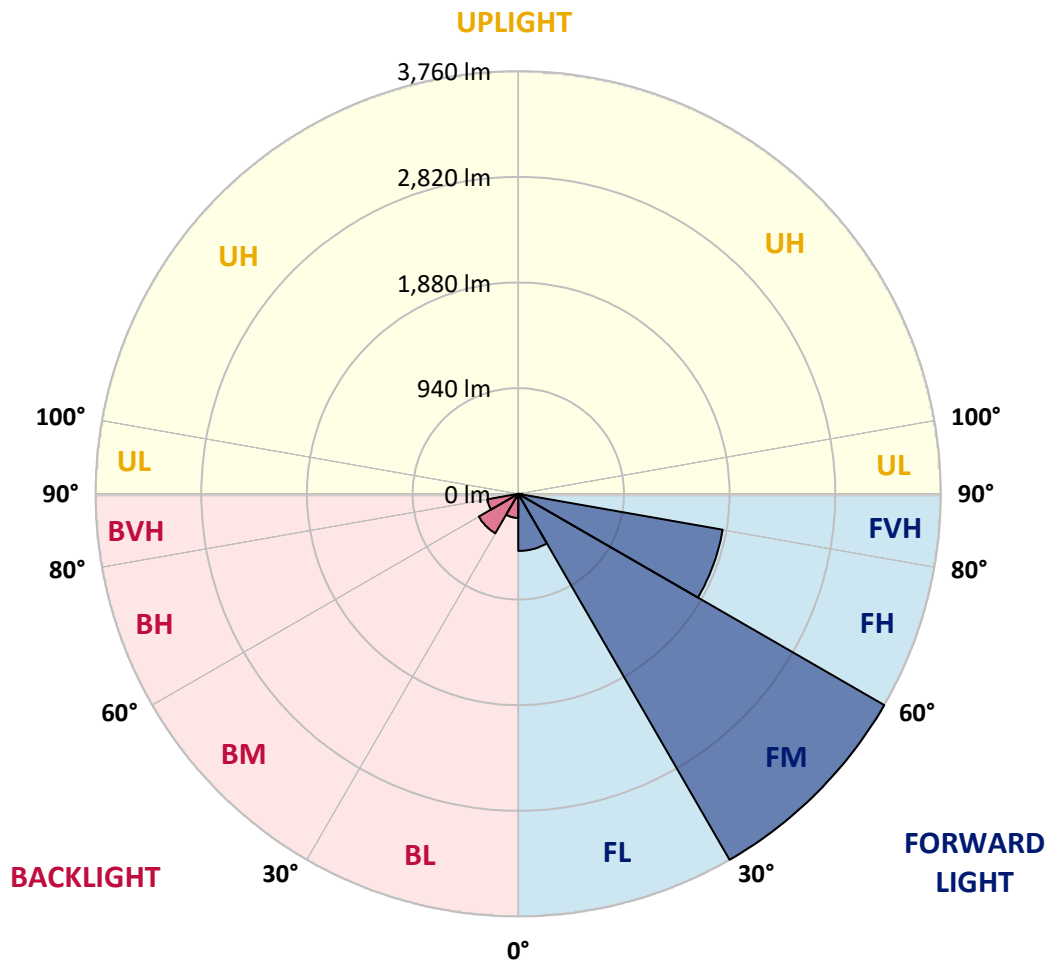
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 CATALOG NUMBER: ISC-PA1F-727-U-T2U-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	508.4	7.2			
FM (30°-60°)	3759.7	53.3			
FH (60°-80°)	1846.5	26.2			G2/5000
FVH (80°-90°)	35.2	0.5			G1/100
BL (0°-30°)	215.0	3.0	B1/500		
BM (30°-60°)	405.6	5.8	B1/1000		
BH (60°-80°)	279.9	4.0	B1/500		G1/500
BVH (80°-90°)	1.6	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	819.4	819.4	819.4	819.4	819.4	819.4	819.4	819.4	819.4	819.4	819.4
2.5°	848.5	848.5	853.3	850.9	850.9	846.1	838.8	841.2	838.8	836.4	829.1
5°	834.0	836.4	838.8	843.7	853.3	858.2	858.2	860.6	860.6	858.2	848.5
7.5°	826.7	831.5	836.4	841.2	853.3	860.6	872.7	887.3	887.3	889.7	880.0
10°	853.3	858.2	865.5	872.7	884.9	897.0	906.7	923.7	923.7	928.5	926.1
12.5°	909.1	909.1	911.5	916.4	933.3	947.9	964.9	979.4	981.8	984.3	977.0
15°	977.0	977.0	979.4	979.4	989.1	1010.9	1042.4	1057.0	1054.6	1052.1	1037.6
17.5°	1054.6	1054.6	1054.6	1057.0	1061.8	1074.0	1110.3	1139.4	1137.0	1134.6	1105.5
20°	1127.3	1132.1	1137.0	1139.4	1144.3	1154.0	1192.7	1226.7	1234.0	1224.3	1173.4
22.5°	1209.7	1212.1	1214.6	1221.8	1234.0	1238.8	1277.6	1328.5	1335.8	1323.7	1255.8
25°	1292.1	1297.0	1304.3	1314.0	1326.1	1350.3	1377.0	1444.9	1452.1	1437.6	1345.5
27.5°	1474.0	1471.5	1449.7	1432.8	1435.2	1452.1	1488.5	1561.2	1568.5	1554.0	1435.2
30°	1784.3	1755.2	1714.0	1638.8	1566.1	1573.4	1624.3	1694.6	1706.7	1687.3	1534.6
32.5°	2225.5	2196.4	2094.6	1929.7	1769.7	1716.4	1781.8	1849.7	1864.3	1842.5	1650.9
35°	2654.6	2647.3	2550.3	2351.6	2080.0	1932.2	1949.1	2036.4	2041.2	2014.6	1796.4
37.5°	3185.5	3158.8	3025.5	2802.5	2482.5	2218.2	2169.7	2252.2	2264.3	2232.8	1973.4
40°	3537.0	3527.3	3447.3	3289.8	2945.5	2613.4	2438.8	2518.8	2516.4	2470.3	2177.0
42.5°	3740.7	3745.5	3740.7	3665.5	3469.1	3088.5	2795.2	2800.0	2807.3	2758.8	2412.2
45°	3878.9	3878.9	3886.1	3946.7	3871.6	3655.8	3229.1	3120.1	3129.7	3054.6	2657.0
47.5°	3876.4	3891.0	3929.8	4070.4	4172.2	4184.3	3772.2	3493.4	3488.5	3374.6	2909.1
50°	3614.6	3604.9	3764.9	4080.1	4385.5	4620.7	4286.1	3888.5	3847.3	3706.7	3171.0
52.5°	3025.5	3057.0	3323.7	3786.7	4436.4	4916.4	4729.8	4320.1	4266.7	4036.4	3401.3
55°	2511.6	2545.5	2804.9	3258.2	4160.1	5020.7	5028.0	4778.3	4671.6	4322.5	3638.8
57.5°	1886.1	1951.5	2334.6	2761.3	3554.0	4761.3	5134.6	5217.1	5100.7	4598.9	3832.8
60°	1204.9	1243.7	1672.8	2198.8	2880.0	4082.5	5112.8	5471.6	5408.6	4851.0	3995.2
62.5°	787.9	809.7	1105.5	1655.8	2194.0	3076.4	4853.4	5573.4	5573.4	5020.7	4116.4
64°	593.9	598.8	809.7	1345.5	1830.3	2397.6	4548.0	5541.9	5600.1	5122.5	4140.7
65°	470.3	472.7	632.7	1117.6	1643.7	1966.1	4281.3	5474.0	5568.6	5161.3	4155.2
67.5°	329.7	337.0	409.7	644.9	1178.2	1134.6	3173.4	5154.0	5270.4	5173.4	4135.8
70°	286.1	295.8	344.2	421.8	841.2	659.4	1687.3	4392.8	4531.0	4819.5	3849.8
72.5°	218.2	230.3	288.5	356.4	591.5	446.1	652.1	3120.1	3338.2	3726.1	3178.2
75°	157.6	162.4	213.3	290.9	414.6	344.2	281.2	1609.7	1830.3	2198.8	1975.8
77.5°	99.4	106.7	145.5	218.2	370.9	261.8	167.3	586.7	739.4	957.6	863.0
80°	58.2	60.6	87.3	150.3	249.7	193.9	106.7	208.5	252.1	356.4	230.3
82.5°	33.9	36.4	55.8	101.8	162.4	150.3	67.9	106.7	118.8	135.8	48.5
85°	12.1	12.1	38.8	60.6	87.3	75.2	38.8	55.8	60.6	75.2	14.5
87.5°	2.4	2.4	19.4	31.5	31.5	12.1	19.4	24.2	29.1	41.2	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°	819.4	819.4	819.4	819.4	819.4	819.4	819.4	819.4	819.4	819.4	819.4
2.5°	826.7	819.4	812.1	802.4	795.2	780.6	773.3	763.6	761.2	756.4	754.0
5°	846.1	834.0	817.0	792.7	778.2	756.4	741.8	727.3	724.9	720.0	717.6
7.5°	872.7	860.6	838.8	812.1	787.9	766.1	749.1	727.3	705.5	688.5	688.5
10°	916.4	901.8	872.7	848.5	819.4	773.3	693.3	620.6	574.6	545.5	535.8
12.5°	969.7	950.3	918.8	889.7	834.0	688.5	564.9	470.3	392.7	356.4	349.1
15°	1025.5	1008.5	977.0	933.3	766.1	574.6	412.1	266.7	191.5	157.6	162.4
17.5°	1086.1	1061.8	1025.5	938.2	674.0	429.1	220.6	135.8	116.4	111.5	111.5
20°	1149.1	1117.6	1081.2	884.9	555.2	247.3	126.1	101.8	94.5	87.3	89.7
22.5°	1217.0	1178.2	1122.4	804.9	397.6	133.3	97.0	82.4	72.7	70.3	70.3
25°	1289.7	1234.0	1163.7	712.7	230.3	101.8	80.0	65.5	58.2	55.8	53.3
27.5°	1367.3	1297.0	1173.4	591.5	130.9	84.8	63.0	50.9	43.6	41.2	41.2
30°	1437.6	1360.0	1151.5	438.8	99.4	70.3	50.9	38.8	33.9	33.9	33.9
32.5°	1532.1	1430.3	1083.7	273.9	80.0	55.8	38.8	31.5	26.7	26.7	26.7
35°	1655.8	1534.6	1015.8	145.5	65.5	46.1	31.5	24.2	21.8	21.8	21.8
37.5°	1825.5	1672.8	955.2	92.1	53.3	36.4	24.2	19.4	17.0	17.0	17.0
40°	2000.0	1837.6	870.3	70.3	43.6	29.1	19.4	14.5	12.1	12.1	14.5
42.5°	2218.2	2029.1	773.3	60.6	36.4	24.2	14.5	9.7	7.3	9.7	9.7
45°	2438.8	2230.3	637.6	50.9	31.5	19.4	9.7	4.8	4.8	7.3	7.3
47.5°	2666.7	2443.7	494.6	43.6	26.7	14.5	7.3	2.4	2.4	4.8	4.8
50°	2901.9	2654.6	368.5	38.8	21.8	12.1	4.8	2.4	0.0	2.4	2.4
52.5°	3137.0	2858.2	286.1	33.9	19.4	9.7	2.4	0.0	0.0	0.0	2.4
55°	3355.2	3042.5	227.9	29.1	17.0	7.3	2.4	0.0	0.0	0.0	0.0
57.5°	3539.5	3178.2	181.8	26.7	14.5	4.8	2.4	0.0	0.0	0.0	0.0
60°	3714.0	3284.9	140.6	21.8	12.1	4.8	2.4	0.0	0.0	0.0	0.0
62.5°	3837.6	3326.1	113.9	19.4	9.7	4.8	0.0	0.0	0.0	0.0	0.0
64°	3891.0	3331.0	99.4	17.0	9.7	4.8	2.4	0.0	0.0	0.0	0.0
65°	3922.5	3316.4	92.1	17.0	9.7	4.8	2.4	0.0	0.0	0.0	0.0
67.5°	3929.8	3236.4	70.3	14.5	7.3	2.4	2.4	0.0	0.0	0.0	0.0
70°	3716.4	2957.6	50.9	9.7	4.8	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	3105.5	2259.4	33.9	7.3	4.8	2.4	0.0	0.0	0.0	0.0	0.0
75°	1939.4	977.0	19.4	7.3	2.4	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	802.4	295.8	12.1	4.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0
80°	184.2	70.3	4.8	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	43.6	12.1	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	9.7	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	2.4	2.4	2.4	2.4	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)