

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: P594913

Luminaire Tested: **ISS-PA1F-827-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594913  
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: ISS-PA1F-827-U-T2U-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 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: 6199 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

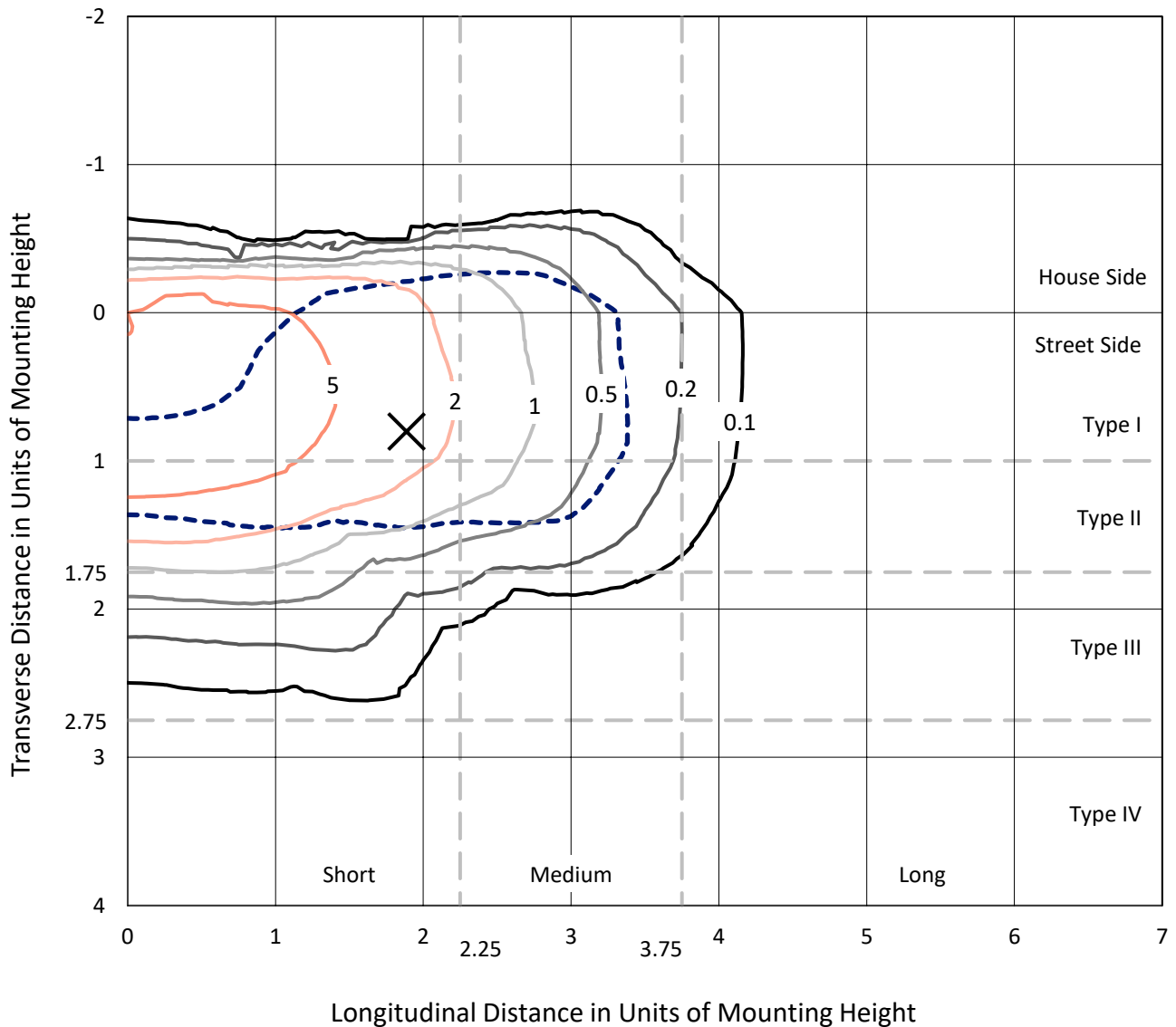




REPORT NUMBER: P594913  
 CATALOG NUMBER: ISS-PA1F-827-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

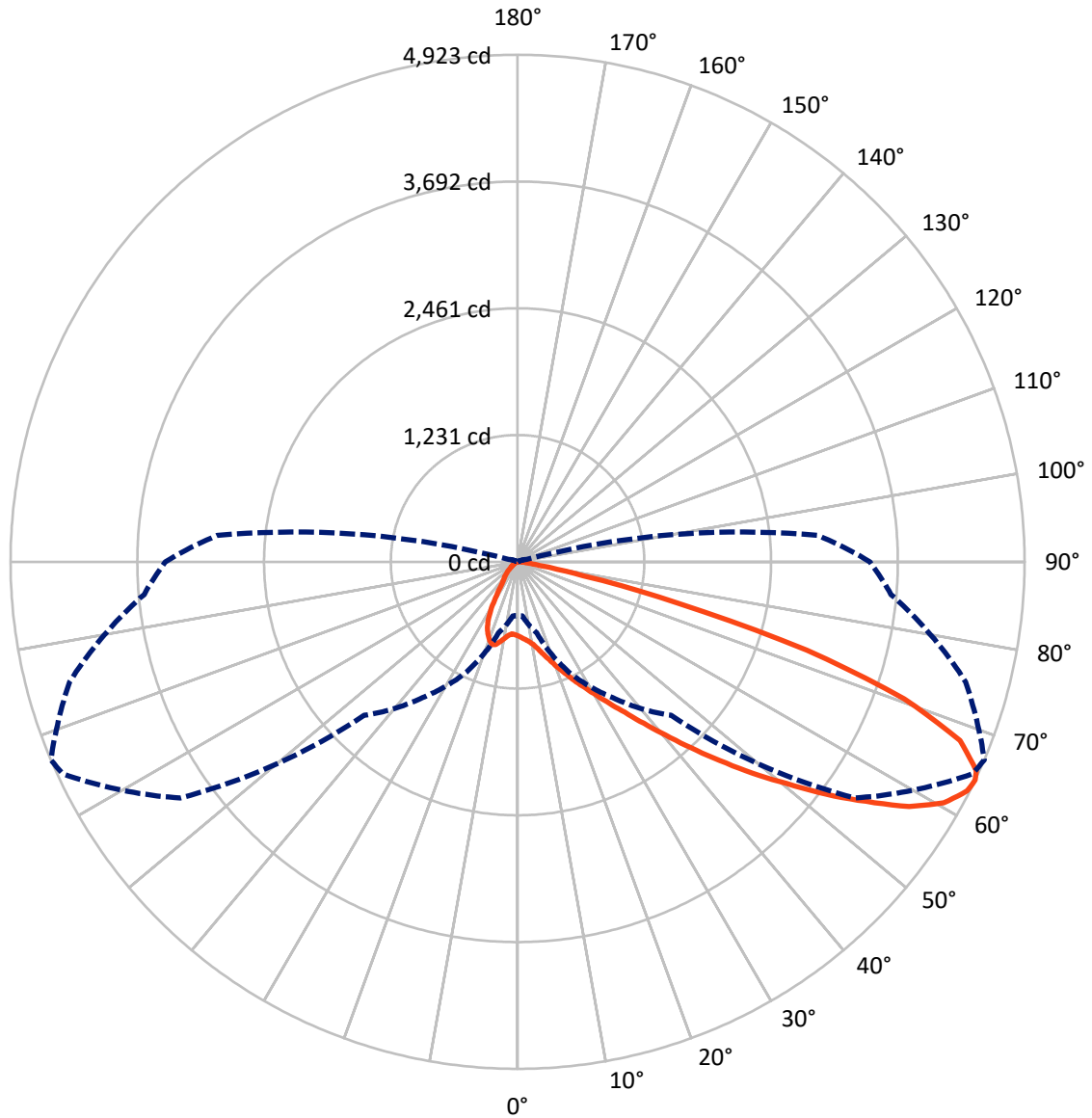
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P594913  
CATALOG NUMBER: ISS-PA1F-827-U-T2U-HSS

### Luminous Intensity Polar Plot



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

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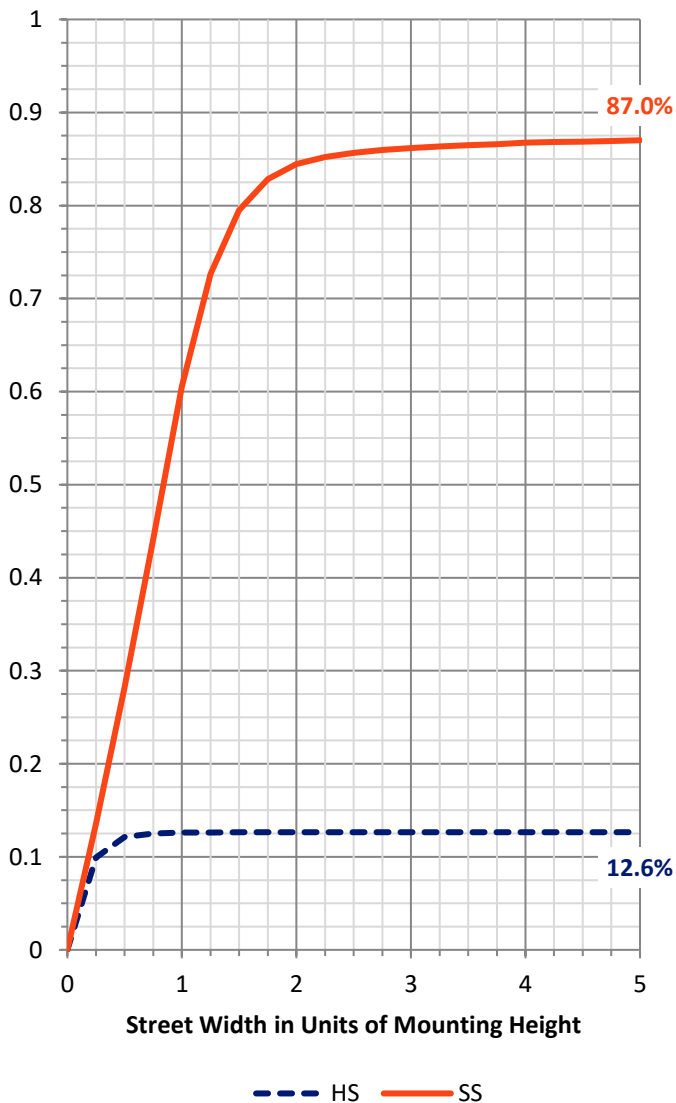
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	793.0	0.0	793.0
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5406.0	0.0	5406.0
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	6199.0	0.0	6199.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.3	1.1
10°-20°	201.7	3.3
20°-30°	365.9	5.9
30°-40°	701.0	11.3
40°-50°	1291.9	20.8
50°-60°	1668.6	26.9
60°-70°	1366.8	22.0
70°-80°	502.4	8.1
80°-90°	32.4	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°	6199.0	100.0
0°-180°	6199.0	100.0

**Coefficient of Utilization**



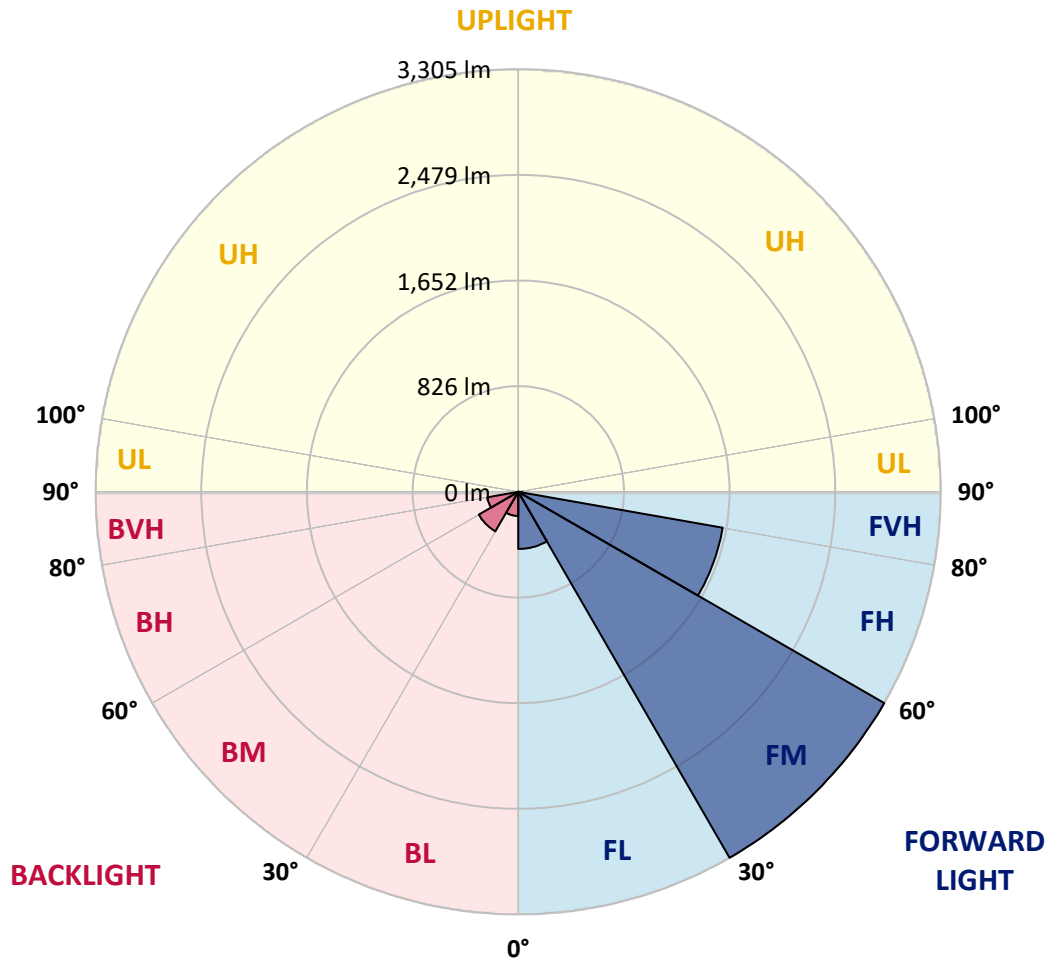
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 CATALOG NUMBER: ISS-PA1F-827-U-T2U-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.9	7.2			
FM (30°-60°)	3305.0	53.3			
FH (60°-80°)	1623.2	26.2			G1/1800
FVH (80°-90°)	30.9	0.5			G1/100
BL (0°-30°)	189.0	3.0	B1/500		
BM (30°-60°)	356.5	5.8	B1/1000		
BH (60°-80°)	246.0	4.0	B1/500		G1/500
BVH (80°-90°)	1.4	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3
2.5°	745.9	745.9	750.1	748.0	748.0	743.7	737.3	739.5	737.3	735.2	728.8
5°	733.1	735.2	737.3	741.6	750.1	754.4	754.4	756.5	756.5	754.4	745.9
7.5°	726.7	730.9	735.2	739.5	750.1	756.5	767.2	780.0	780.0	782.1	773.6
10°	750.1	754.4	760.8	767.2	777.8	788.5	797.0	811.9	811.9	816.2	814.1
12.5°	799.1	799.1	801.3	805.5	820.5	833.2	848.2	860.9	863.1	865.2	858.8
15°	858.8	858.8	860.9	860.9	869.5	888.6	916.3	929.1	927.0	924.9	912.1
17.5°	927.0	927.0	927.0	929.1	933.4	944.1	976.0	1001.6	999.5	997.3	971.8
20°	990.9	995.2	999.5	1001.6	1005.9	1014.4	1048.5	1078.3	1084.7	1076.2	1031.4
22.5°	1063.4	1065.5	1067.7	1074.0	1084.7	1089.0	1123.1	1167.8	1174.2	1163.6	1103.9
25°	1135.8	1140.1	1146.5	1155.0	1165.7	1187.0	1210.4	1270.1	1276.5	1263.7	1182.7
27.5°	1295.7	1293.5	1274.4	1259.4	1261.6	1276.5	1308.5	1372.4	1378.8	1366.0	1261.6
30°	1568.4	1542.9	1506.6	1440.6	1376.7	1383.0	1427.8	1489.6	1500.3	1483.2	1349.0
32.5°	1956.3	1930.7	1841.2	1696.3	1555.7	1508.8	1566.3	1626.0	1638.8	1619.6	1451.2
35°	2333.5	2327.1	2241.9	2067.1	1828.4	1698.4	1713.4	1790.1	1794.3	1770.9	1579.1
37.5°	2800.2	2776.8	2659.5	2463.5	2182.2	1949.9	1907.3	1979.7	1990.4	1962.7	1734.7
40°	3109.2	3100.7	3030.3	2891.8	2589.2	2297.3	2143.8	2214.2	2212.0	2171.5	1913.7
42.5°	3288.2	3292.5	3288.2	3222.1	3049.5	2715.0	2457.1	2461.4	2467.7	2425.1	2120.4
45°	3409.7	3409.7	3416.1	3469.3	3403.3	3213.6	2838.6	2742.7	2751.2	2685.1	2335.6
47.5°	3407.5	3420.3	3454.4	3578.0	3667.5	3678.2	3315.9	3070.8	3066.6	2966.4	2557.3
50°	3177.4	3168.9	3309.5	3586.5	3855.1	4061.8	3767.7	3418.2	3382.0	3258.4	2787.4
52.5°	2659.5	2687.2	2921.7	3328.7	3899.8	4321.8	4157.7	3797.5	3750.6	3548.2	2989.9
55°	2207.8	2237.6	2465.6	2864.1	3656.9	4413.4	4419.8	4200.3	4106.5	3799.7	3198.7
57.5°	1658.0	1715.5	2052.2	2427.3	3124.1	4185.4	4513.6	4586.0	4483.7	4042.6	3369.2
60°	1059.1	1093.2	1470.4	1932.9	2531.7	3588.7	4494.4	4809.8	4754.4	4264.2	3512.0
62.5°	692.6	711.8	971.8	1455.5	1928.6	2704.3	4266.4	4899.3	4899.3	4413.4	3618.5
64°	522.1	526.4	711.8	1182.7	1608.9	2107.6	3997.8	4871.6	4922.7	4502.9	3639.8
65°	413.4	415.6	556.2	982.4	1444.8	1728.3	3763.4	4811.9	4895.0	4537.0	3652.6
67.5°	289.8	296.2	360.1	566.9	1035.7	997.3	2789.5	4530.6	4632.9	4547.6	3635.6
70°	251.5	260.0	302.6	370.8	739.5	579.6	1483.2	3861.5	3982.9	4236.5	3384.1
72.5°	191.8	202.4	253.6	313.3	520.0	392.1	573.3	2742.7	2934.4	3275.4	2793.8
75°	138.5	142.8	187.5	255.7	364.4	302.6	247.2	1415.0	1608.9	1932.9	1736.8
77.5°	87.4	93.8	127.9	191.8	326.0	230.2	147.0	515.7	650.0	841.8	758.7
80°	51.1	53.3	76.7	132.1	219.5	170.5	93.8	183.3	221.6	313.3	202.4
82.5°	29.8	32.0	49.0	89.5	142.8	132.1	59.7	93.8	104.4	119.3	42.6
85°	10.7	10.7	34.1	53.3	76.7	66.1	34.1	49.0	53.3	66.1	12.8
87.5°	2.1	2.1	17.0	27.7	27.7	10.7	17.0	21.3	25.6	36.2	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



REPORT NUMBER: P594913  
 CATALOG NUMBER: ISS-PA1F-827-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3
2.5°	726.7	720.3	713.9	705.4	699.0	686.2	679.8	671.3	669.1	664.9	662.8
5°	743.7	733.1	718.2	696.9	684.1	664.9	652.1	639.3	637.2	632.9	630.8
7.5°	767.2	756.5	737.3	713.9	692.6	673.4	658.5	639.3	620.1	605.2	605.2
10°	805.5	792.7	767.2	745.9	720.3	679.8	609.5	545.5	505.1	479.5	471.0
12.5°	852.4	835.4	807.7	782.1	733.1	605.2	496.5	413.4	345.2	313.3	306.9
15°	901.4	886.5	858.8	820.5	673.4	505.1	362.3	234.4	168.4	138.5	142.8
17.5°	954.7	933.4	901.4	824.7	592.4	377.2	193.9	119.3	102.3	98.0	98.0
20°	1010.1	982.4	950.4	777.8	488.0	217.4	110.8	89.5	83.1	76.7	78.8
22.5°	1069.8	1035.7	986.7	707.5	349.5	117.2	85.2	72.5	63.9	61.8	61.8
25°	1133.7	1084.7	1022.9	626.5	202.4	89.5	70.3	57.5	51.1	49.0	46.9
27.5°	1201.9	1140.1	1031.4	520.0	115.1	74.6	55.4	44.8	38.4	36.2	36.2
30°	1263.7	1195.5	1012.2	385.7	87.4	61.8	44.8	34.1	29.8	29.8	29.8
32.5°	1346.8	1257.3	952.6	240.8	70.3	49.0	34.1	27.7	23.4	23.4	23.4
35°	1455.5	1349.0	892.9	127.9	57.5	40.5	27.7	21.3	19.2	19.2	19.2
37.5°	1604.7	1470.4	839.6	81.0	46.9	32.0	21.3	17.0	14.9	14.9	14.9
40°	1758.1	1615.3	765.0	61.8	38.4	25.6	17.0	12.8	10.7	10.7	12.8
42.5°	1949.9	1783.7	679.8	53.3	32.0	21.3	12.8	8.5	6.4	8.5	8.5
45°	2143.8	1960.6	560.5	44.8	27.7	17.0	8.5	4.3	4.3	6.4	6.4
47.5°	2344.1	2148.1	434.7	38.4	23.4	12.8	6.4	2.1	2.1	4.3	4.3
50°	2550.9	2333.5	323.9	34.1	19.2	10.7	4.3	2.1	0.0	2.1	2.1
52.5°	2757.6	2512.5	251.5	29.8	17.0	8.5	2.1	0.0	0.0	0.0	2.1
55°	2949.4	2674.5	200.3	25.6	14.9	6.4	2.1	0.0	0.0	0.0	0.0
57.5°	3111.3	2793.8	159.8	23.4	12.8	4.3	2.1	0.0	0.0	0.0	0.0
60°	3264.8	2887.6	123.6	19.2	10.7	4.3	2.1	0.0	0.0	0.0	0.0
62.5°	3373.4	2923.8	100.2	17.0	8.5	4.3	0.0	0.0	0.0	0.0	0.0
64°	3420.3	2928.1	87.4	14.9	8.5	4.3	2.1	0.0	0.0	0.0	0.0
65°	3448.0	2915.3	81.0	14.9	8.5	4.3	2.1	0.0	0.0	0.0	0.0
67.5°	3454.4	2844.9	61.8	12.8	6.4	2.1	2.1	0.0	0.0	0.0	0.0
70°	3266.9	2599.9	44.8	8.5	4.3	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	2729.9	1986.1	29.8	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0
75°	1704.8	858.8	17.0	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	705.4	260.0	10.7	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
80°	162.0	61.8	4.3	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	38.4	10.7	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	8.5	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.1	2.1	2.1	2.1	2.1	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)