

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: P594380

Luminaire Tested: **ISC-PA1F-735-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1F-735-U-T2R-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9030 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

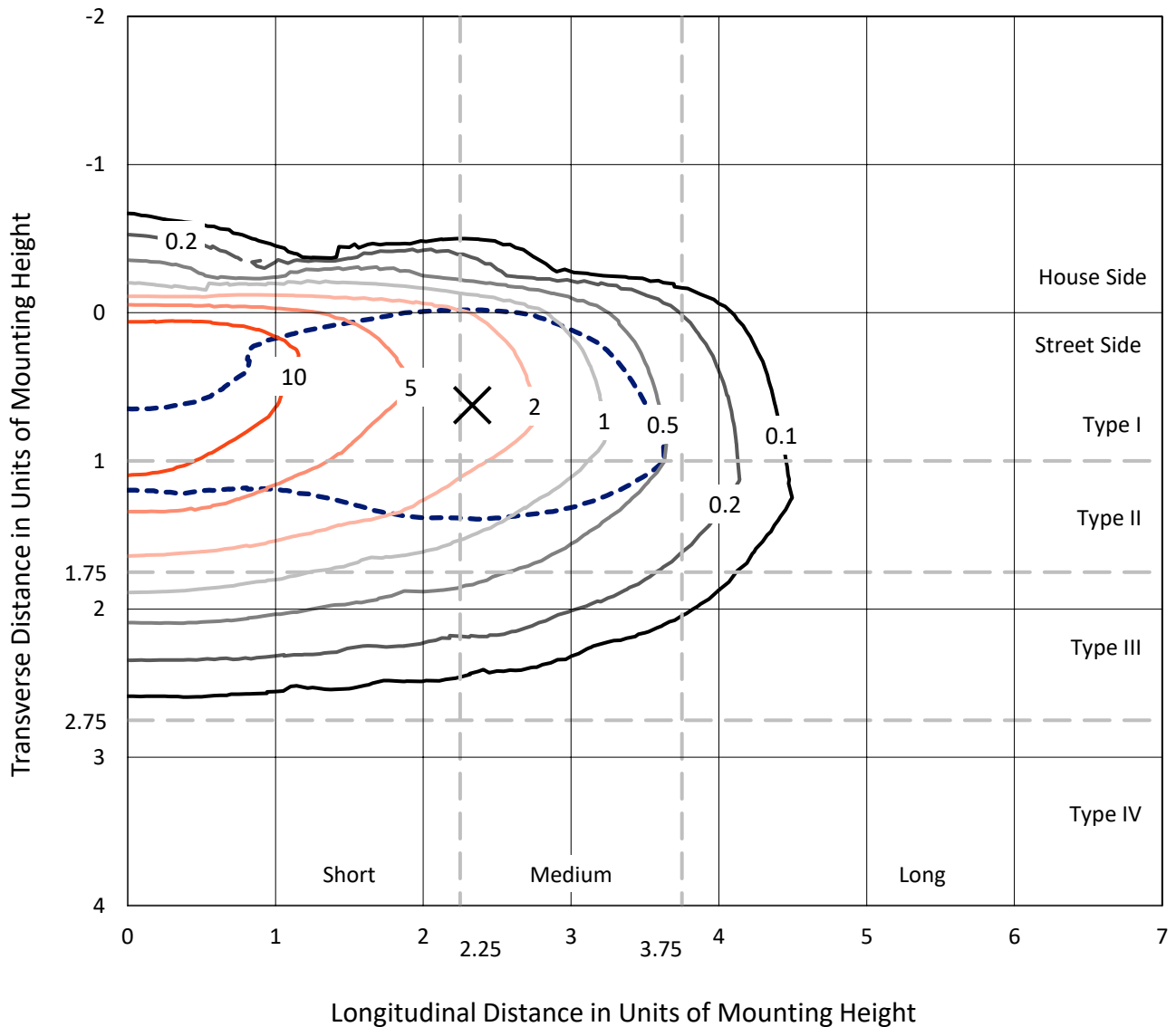
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

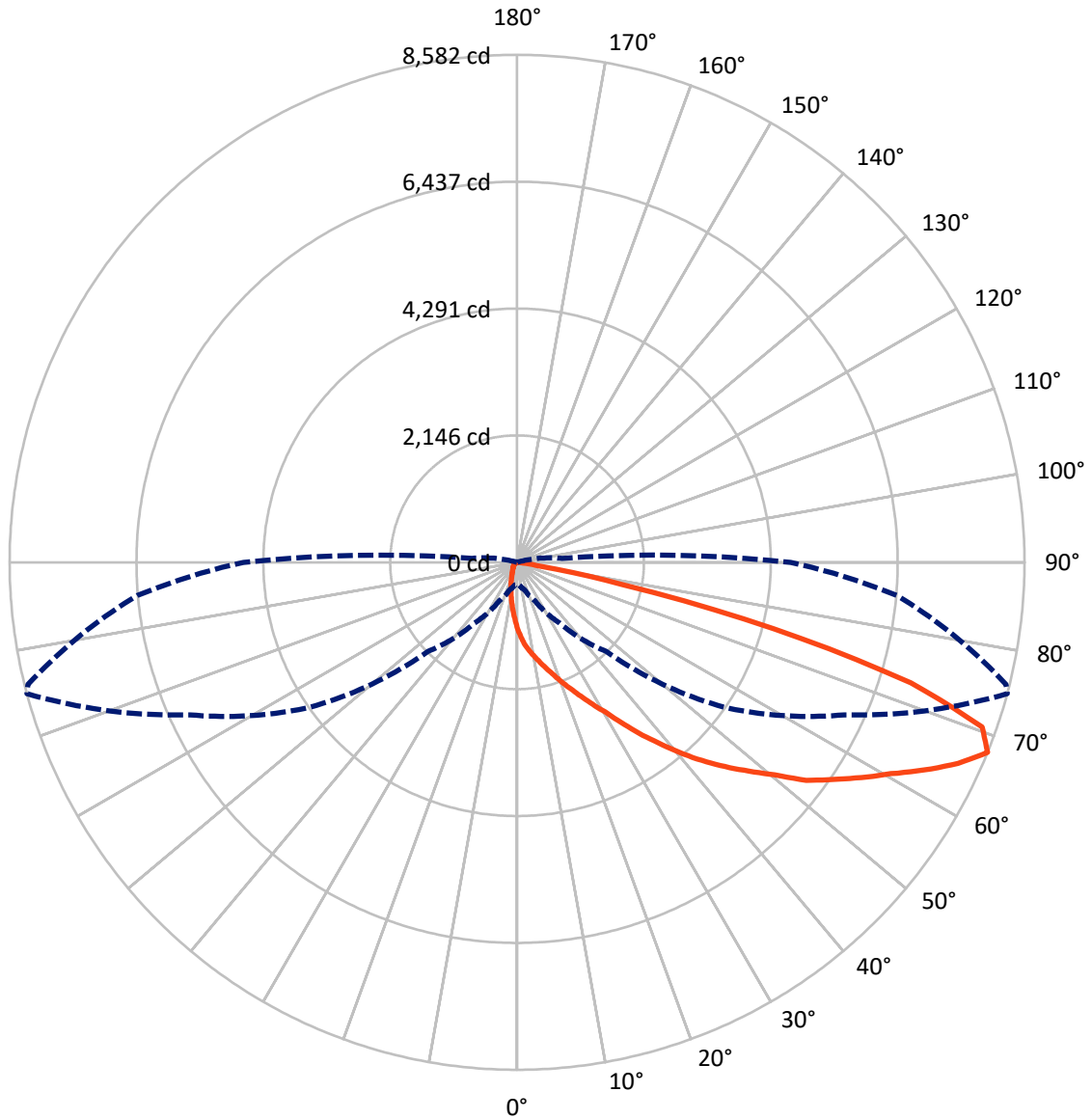
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 17.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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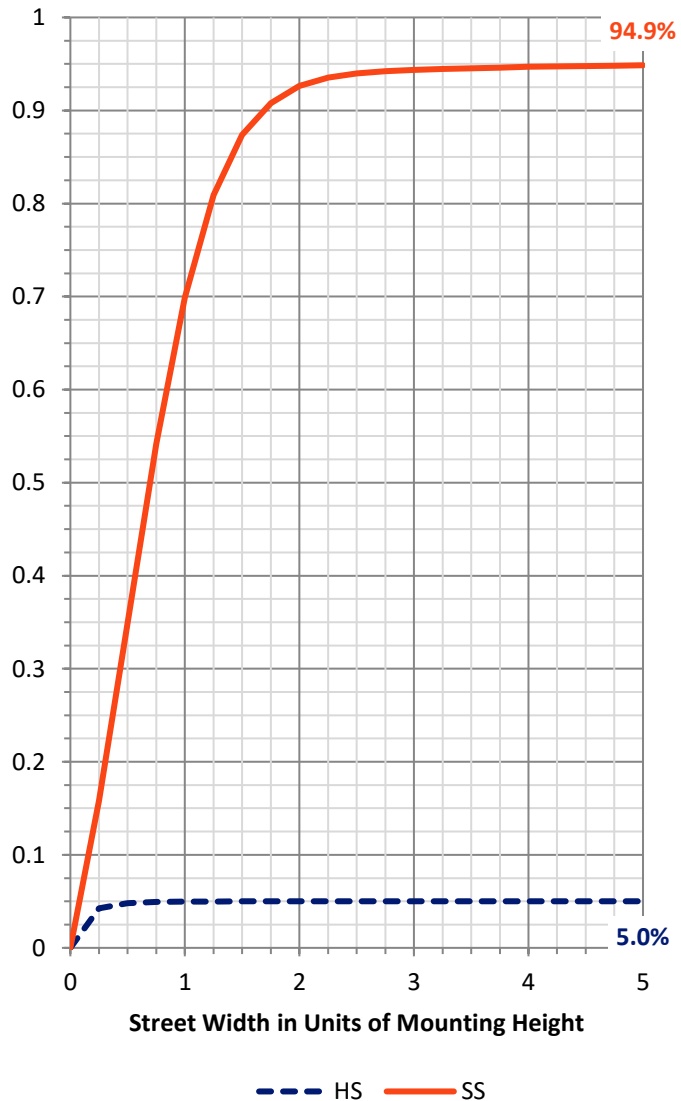
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	455.2	0.0	455.2
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	8574.8	0.0	8574.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	9030.0	0.0	9030.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.2	1.1
10°-20°	326.6	3.6
20°-30°	656.6	7.3
30°-40°	1241.9	13.8
40°-50°	1857.9	20.6
50°-60°	2145.1	23.8
60°-70°	1901.4	21.1
70°-80°	768.5	8.5
80°-90°	30.7	0.3
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°	9030.0	100.0
0°-180°	9030.0	100.0

**Coefficient of Utilization**

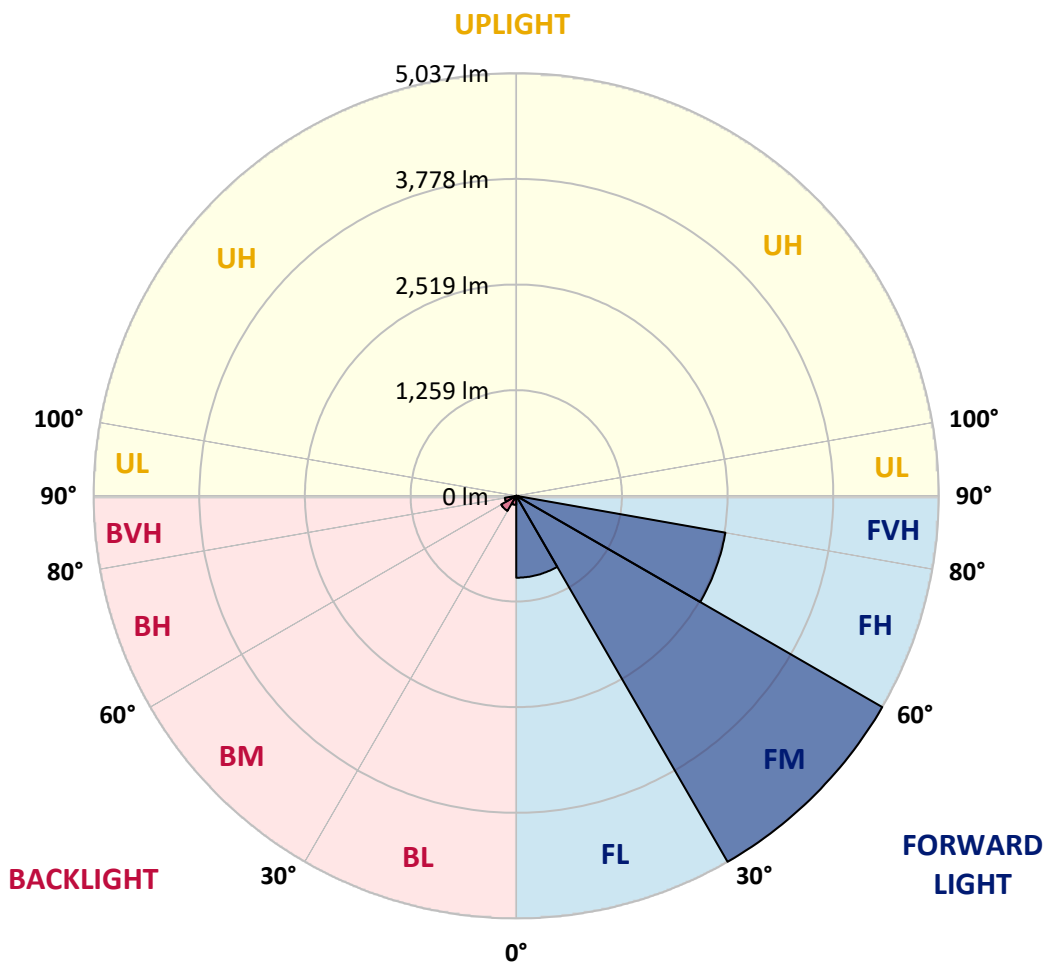


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.2	10.8			
FM (30°-60°)	5037.3	55.8			
FH (60°-80°)	2531.9	28.0			G2/5000
FVH (80°-90°)	29.3	0.3			G1/100
BL (0°-30°)	108.2	1.2	B0/110		
BM (30°-60°)	207.7	2.3	B0/220		
BH (60°-80°)	138.0	1.5	B1/500		G1/500
BVH (80°-90°)	1.3	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2
2.5°	1561.3	1566.8	1555.9	1531.5	1509.8	1458.3	1417.7	1344.5	1265.9	1265.9	1171.0
5°	1745.7	1740.2	1734.8	1715.9	1699.6	1656.2	1602.0	1523.4	1401.4	1390.6	1233.4
7.5°	1835.1	1829.7	1818.9	1810.7	1810.7	1780.9	1729.4	1648.1	1512.6	1501.7	1290.3
10°	1940.8	1930.0	1930.0	1908.3	1902.9	1867.6	1840.5	1770.1	1621.0	1607.4	1355.3
12.5°	2065.5	2054.7	2057.4	2038.4	2030.3	1992.3	1954.4	1886.6	1737.5	1724.0	1431.2
15°	2136.0	2130.6	2146.8	2149.6	2155.0	2122.5	2087.2	2016.7	1867.6	1848.7	1520.7
17.5°	2176.7	2176.7	2195.6	2230.9	2271.5	2252.6	2225.5	2168.5	2000.5	1989.6	1615.6
20°	2255.3	2247.1	2279.7	2312.2	2363.7	2380.0	2371.8	2328.5	2160.4	2127.9	1718.6
22.5°	2385.4	2374.5	2404.4	2445.0	2507.4	2512.8	2518.2	2496.5	2323.0	2290.5	1827.0
25°	2691.7	2664.6	2637.5	2632.1	2656.5	2678.1	2661.9	2678.1	2507.4	2477.5	1943.5
27.5°	3288.0	3242.0	3111.8	2968.2	2867.9	2886.9	2835.4	2865.2	2718.8	2680.8	2052.0
30°	3860.0	3813.9	3708.2	3453.4	3223.0	3120.0	3044.1	3033.2	2935.7	2892.3	2176.7
32.5°	4258.5	4228.6	4158.2	3987.4	3700.1	3437.1	3290.7	3239.2	3225.7	3157.9	2336.6
35°	4529.5	4502.4	4453.6	4315.4	4103.9	3811.2	3559.1	3445.3	3548.3	3466.9	2518.2
37.5°	4692.2	4673.2	4619.0	4524.1	4410.3	4217.8	3892.5	3710.9	3873.5	3797.6	2751.3
40°	4811.4	4762.6	4724.7	4651.5	4613.6	4551.2	4272.0	3987.4	4225.9	4147.3	2981.7
42.5°	4822.3	4800.6	4770.8	4727.4	4732.8	4773.5	4675.9	4307.2	4581.0	4507.8	3225.7
45°	4819.6	4797.9	4776.2	4732.8	4759.9	4911.7	5001.2	4643.4	4928.0	4852.1	3483.2
47.5°	4741.0	4724.7	4730.1	4730.1	4765.4	4971.4	5253.3	4984.9	5275.0	5201.8	3794.9
50°	4464.5	4480.7	4589.2	4646.1	4708.4	4974.1	5429.5	5342.7	5649.0	5597.5	4095.8
52.5°	3588.9	3681.1	4120.2	4421.1	4602.7	4919.9	5543.3	5719.5	6123.4	6044.8	4437.4
55°	2743.2	2748.6	3171.5	3870.8	4394.0	4822.3	5608.4	5974.3	6483.9	6440.5	4738.2
57.5°	2225.5	2222.7	2431.5	3060.3	3851.9	4667.8	5624.6	6161.3	6866.1	6784.8	5085.2
60°	1818.9	1808.0	1932.7	2320.3	3147.1	4304.5	5565.0	6313.1	7259.2	7229.3	5448.4
62.5°	1314.7	1325.5	1490.9	1791.8	2426.0	3635.0	5437.6	6359.2	7733.5	7703.7	5855.0
65°	756.3	788.8	970.4	1290.3	1859.5	2843.5	5074.4	6324.0	8197.1	8194.3	6231.8
67.5°	379.5	382.2	479.8	721.0	1249.6	2127.9	4272.0	6101.7	8582.0	8522.3	6448.7
70°	244.0	249.4	281.9	371.4	691.2	1474.6	3263.6	5472.8	8340.7	8319.0	6131.5
72.5°	187.0	192.5	219.6	244.0	360.5	837.6	2209.2	4253.0	6963.7	6904.1	4781.6
75°	146.4	149.1	176.2	197.9	241.2	393.0	1108.7	2651.0	4486.2	4331.6	2721.5
77.5°	116.6	119.3	132.8	157.2	184.3	219.6	328.0	1192.7	1824.3	1629.1	883.7
80°	75.9	78.6	100.3	122.0	157.2	143.7	127.4	344.3	390.3	352.4	157.2
82.5°	43.4	46.1	67.8	97.6	119.3	81.3	73.2	100.3	92.2	89.5	48.8
85°	13.6	13.6	46.1	67.8	54.2	24.4	46.1	35.2	29.8	27.1	16.3
87.5°	2.7	2.7	21.7	24.4	8.1	2.7	5.4	8.1	10.8	13.6	8.1
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°	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2	1122.2
2.5°	1124.9	1070.7	970.4	883.7	799.6	726.5	675.0	628.9	596.3	588.2	574.7
5°	1133.1	1027.3	834.9	672.2	531.3	417.4	352.4	309.0	287.3	273.8	273.8
7.5°	1141.2	984.0	707.5	490.6	336.1	254.8	214.1	195.2	187.0	184.3	181.6
10°	1157.5	951.4	599.1	352.4	230.4	192.5	176.2	168.1	162.6	159.9	159.9
12.5°	1184.6	924.3	498.8	260.2	189.7	170.8	159.9	149.1	143.7	141.0	141.0
15°	1219.8	905.4	412.0	208.7	173.5	154.5	141.0	130.1	122.0	119.3	119.3
17.5°	1268.6	891.8	338.8	184.3	159.9	138.2	122.0	111.1	103.0	100.3	100.3
20°	1317.4	891.8	279.2	170.8	146.4	122.0	105.7	92.2	84.0	81.3	81.3
22.5°	1382.4	889.1	233.1	157.2	130.1	105.7	89.5	73.2	67.8	65.1	65.1
25°	1436.7	889.1	200.6	143.7	113.8	92.2	73.2	59.6	54.2	51.5	51.5
27.5°	1501.7	881.0	170.8	127.4	97.6	75.9	59.6	48.8	43.4	40.7	40.7
30°	1558.6	870.1	151.8	113.8	84.0	62.3	48.8	37.9	35.2	35.2	35.2
32.5°	1653.5	862.0	135.5	97.6	70.5	51.5	37.9	29.8	27.1	27.1	27.1
35°	1767.4	862.0	124.7	84.0	59.6	43.4	29.8	24.4	21.7	21.7	21.7
37.5°	1916.4	870.1	111.1	73.2	48.8	35.2	24.4	19.0	16.3	16.3	16.3
40°	2073.7	889.1	100.3	65.1	43.4	27.1	19.0	13.6	10.8	13.6	13.6
42.5°	2260.7	908.1	89.5	56.9	35.2	21.7	13.6	8.1	5.4	8.1	8.1
45°	2445.0	927.0	84.0	48.8	29.8	16.3	8.1	5.4	2.7	5.4	5.4
47.5°	2672.7	973.1	78.6	43.4	24.4	13.6	5.4	2.7	0.0	2.7	2.7
50°	2935.7	1024.6	70.5	35.2	19.0	10.8	5.4	0.0	0.0	0.0	0.0
52.5°	3187.7	1068.0	62.3	29.8	16.3	8.1	2.7	0.0	0.0	0.0	0.0
55°	3439.8	1095.1	54.2	24.4	13.6	8.1	2.7	0.0	0.0	0.0	0.0
57.5°	3710.9	1111.4	48.8	21.7	10.8	5.4	2.7	0.0	0.0	0.0	0.0
60°	4011.8	1111.4	40.7	19.0	8.1	5.4	2.7	0.0	0.0	0.0	0.0
62.5°	4345.2	1078.8	37.9	16.3	8.1	5.4	2.7	0.0	0.0	0.0	0.0
65°	4616.3	962.3	32.5	13.6	8.1	5.4	2.7	0.0	0.0	0.0	0.0
67.5°	4627.1	761.7	29.8	10.8	8.1	5.4	2.7	0.0	0.0	0.0	0.0
70°	4125.6	520.4	24.4	8.1	5.4	5.4	2.7	0.0	0.0	0.0	0.0
72.5°	3087.4	279.2	21.7	8.1	5.4	2.7	2.7	0.0	0.0	0.0	0.0
75°	1664.3	108.4	13.6	8.1	5.4	2.7	2.7	0.0	0.0	0.0	0.0
77.5°	485.2	54.2	8.1	5.4	5.4	2.7	2.7	0.0	0.0	0.0	0.0
80°	89.5	27.1	5.4	5.4	5.4	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	24.4	10.8	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	10.8	5.4	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	2.7	2.7	2.7	2.7	2.7	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)