

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: P594303

Luminaire Tested: **ISC-PA1E-735-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594303  
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-PA1E-735-U-T3-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 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: 7388 lumens  
Efficiency: N/A  
Efficacy: 89.7 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

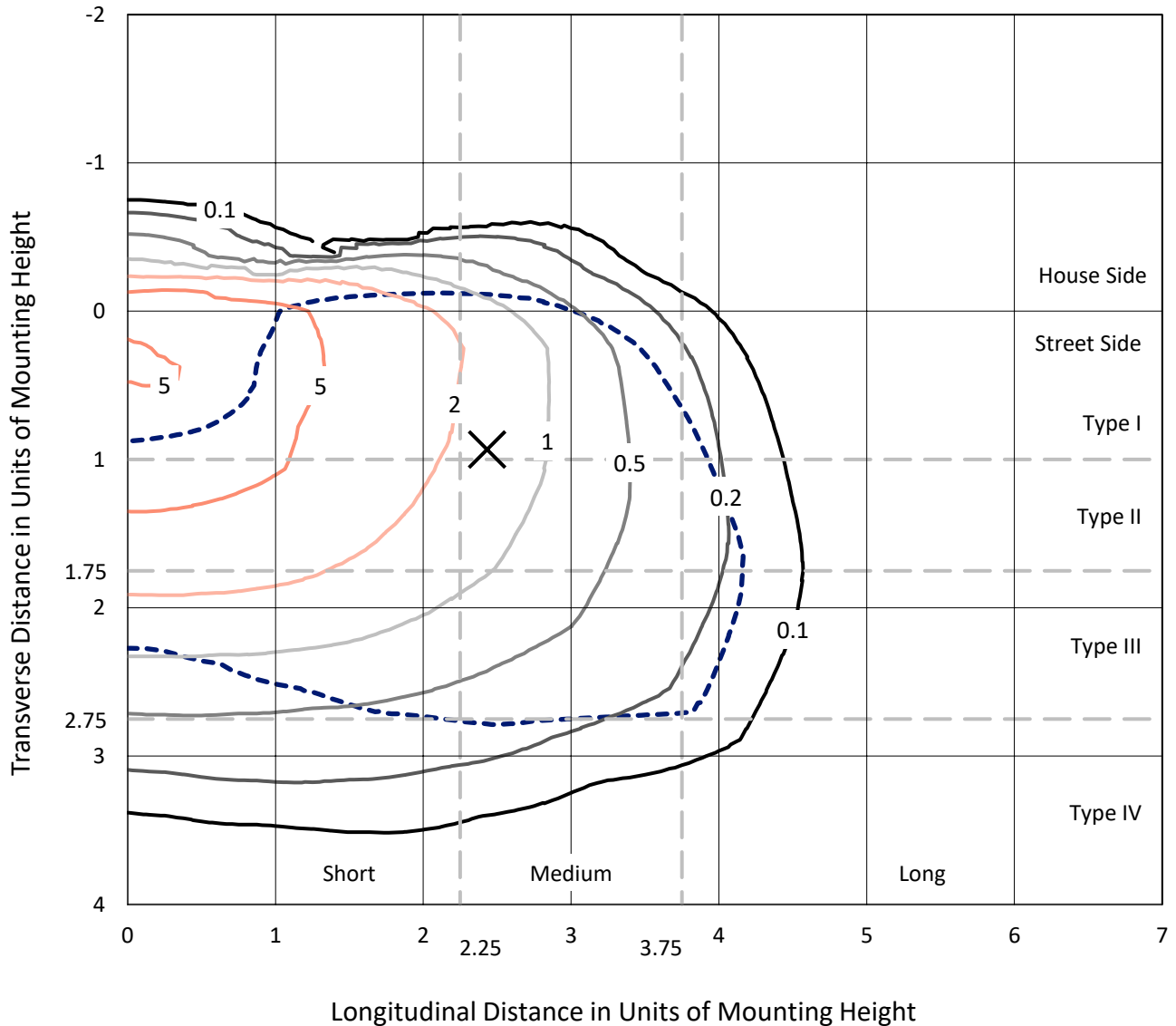
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

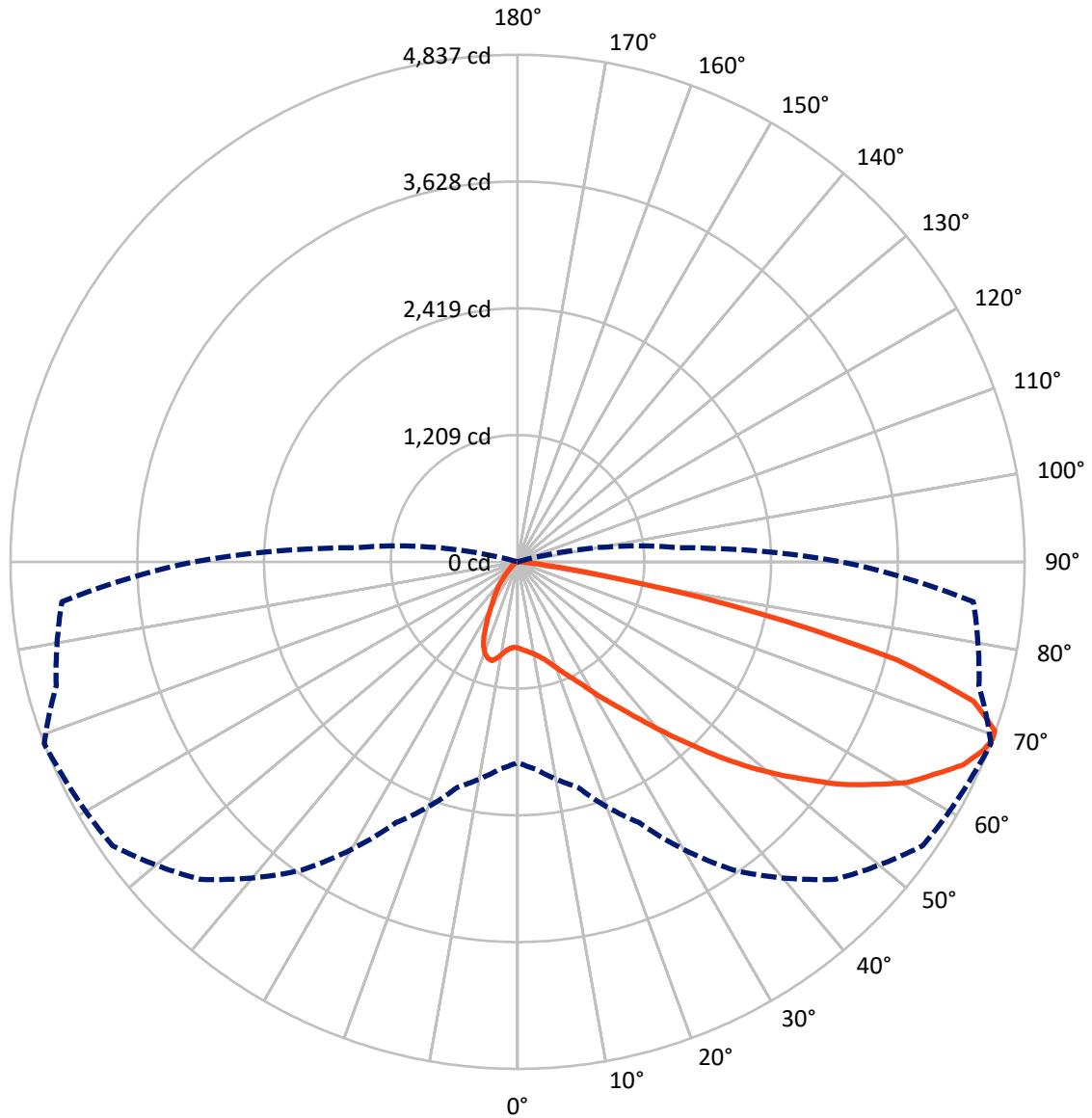
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.1 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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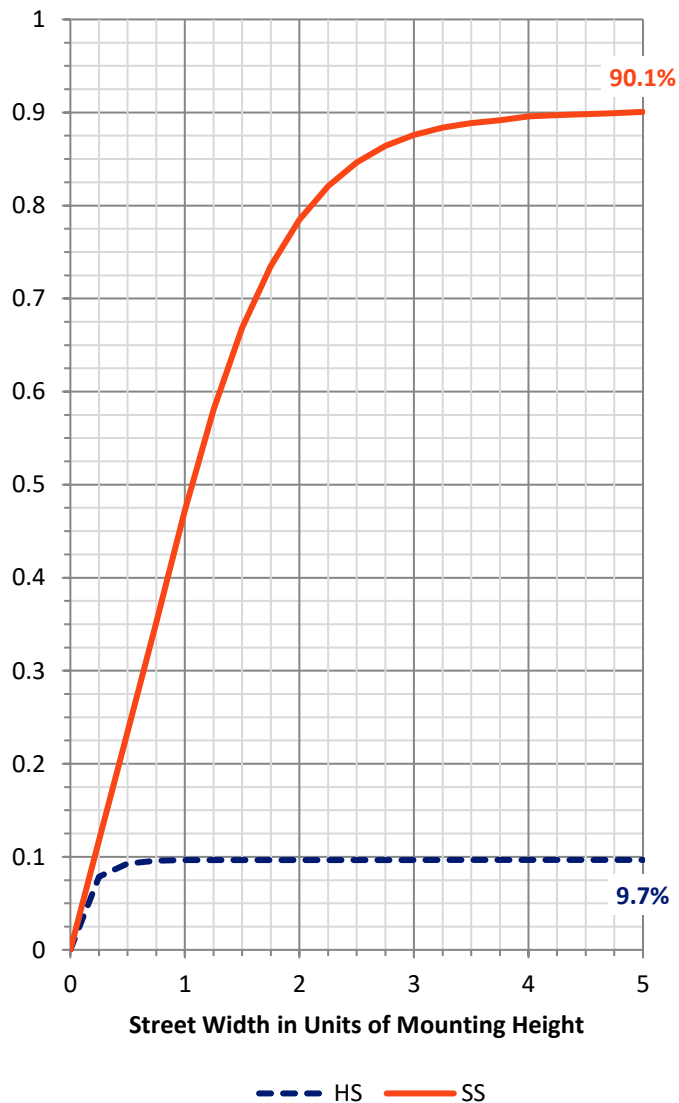
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	719.9	0.0	719.9
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	6668.1	0.0	6668.1
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	7388.0	0.0	7388.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.4	1.1
10°-20°	207.3	2.8
20°-30°	345.2	4.7
30°-40°	621.5	8.4
40°-50°	1126.8	15.3
50°-60°	1761.0	23.8
60°-70°	2037.4	27.6
70°-80°	1139.4	15.4
80°-90°	71.1	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°	7388.0	100.0
0°-180°	7388.0	100.0

**Coefficient of Utilization**

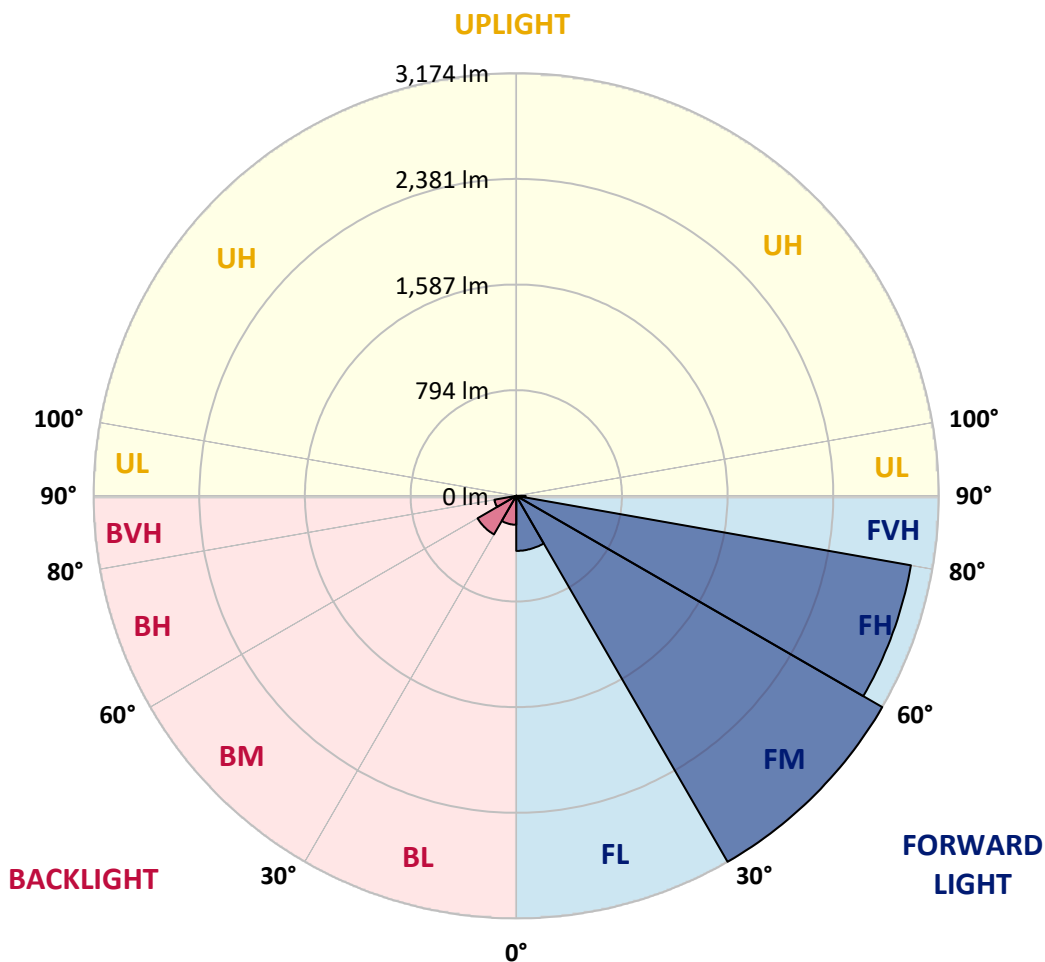


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.3	5.6			
FM (30°-60°)	3174.1	43.0			
FH (60°-80°)	3010.1	40.7			G2/5000
FVH (80°-90°)	70.6	1.0			G1/100
BL (0°-30°)	217.5	2.9	B1/500		
BM (30°-60°)	335.1	4.5	B1/1000		
BH (60°-80°)	166.7	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°	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8
2.5°	851.3	851.3	851.3	846.4	848.9	846.4	843.9	836.6	839.0	836.6	829.2
5°	821.8	824.3	831.6	836.6	848.9	853.8	856.2	856.2	853.8	848.9	843.9
7.5°	765.2	765.2	772.6	787.3	812.0	839.0	861.2	873.5	875.9	875.9	868.5
10°	750.4	750.4	760.3	770.1	794.7	826.7	861.2	890.7	895.6	900.5	898.1
12.5°	743.1	745.5	755.4	772.6	804.6	834.1	871.0	912.8	927.6	939.9	942.4
15°	752.9	752.9	762.7	780.0	816.9	858.7	905.5	952.2	967.0	984.2	996.5
17.5°	767.7	772.6	777.5	794.7	829.2	880.8	942.4	1003.9	1021.1	1043.2	1053.1
20°	792.3	792.3	797.2	812.0	848.9	910.4	996.5	1070.3	1085.1	1099.8	1112.1
22.5°	821.8	824.3	824.3	836.6	878.4	944.8	1043.2	1134.3	1158.9	1166.3	1171.2
25°	910.4	905.5	888.2	880.8	912.8	984.2	1099.8	1210.5	1237.6	1245.0	1235.2
27.5°	1094.9	1075.2	1028.5	979.3	974.3	1045.7	1176.1	1306.5	1336.0	1338.5	1304.0
30°	1326.2	1328.7	1252.4	1146.6	1075.2	1112.1	1259.8	1427.1	1456.6	1444.3	1390.2
32.5°	1611.6	1599.3	1542.7	1390.2	1247.5	1215.5	1350.8	1552.6	1587.0	1567.3	1496.0
35°	1855.2	1862.6	1793.7	1658.4	1478.7	1375.4	1461.5	1692.8	1734.6	1700.2	1611.6
37.5°	2059.4	2069.3	2027.4	1916.7	1756.8	1594.4	1606.7	1857.7	1914.2	1879.8	1769.1
40°	2285.8	2293.2	2275.9	2155.4	2012.7	1855.2	1801.1	2047.1	2123.4	2076.6	1961.0
42.5°	2534.3	2561.3	2531.8	2435.9	2288.2	2152.9	2071.7	2278.4	2354.7	2325.1	2170.1
45°	2873.8	2876.3	2841.8	2745.9	2593.3	2482.6	2384.2	2524.4	2622.9	2586.0	2403.9
47.5°	3124.8	3142.0	3122.3	3055.9	2932.9	2859.1	2723.7	2795.1	2898.4	2851.7	2645.0
50°	3316.7	3363.5	3346.2	3365.9	3304.4	3272.4	3065.7	3075.6	3176.5	3137.1	2891.0
52.5°	3422.5	3481.6	3486.5	3587.4	3639.0	3717.8	3397.9	3383.1	3447.1	3412.7	3142.0
55°	3407.7	3422.5	3545.5	3730.1	3931.8	4111.4	3722.7	3661.2	3749.8	3653.8	3407.7
57.5°	3265.0	3301.9	3518.5	3747.3	4104.1	4364.9	4003.2	3934.3	4008.1	3880.2	3680.9
60°	3060.8	3115.0	3393.0	3720.2	4204.9	4517.4	4276.3	4207.4	4273.8	4118.8	3990.9
62.5°	2876.3	2900.9	3156.8	3607.0	4145.9	4510.0	4487.9	4423.9	4463.3	4300.9	4256.6
65°	2613.0	2622.9	2876.3	3402.8	4015.5	4460.8	4603.5	4628.1	4670.0	4453.4	4446.1
67.5°	2207.0	2229.2	2480.2	3046.1	3799.0	4364.9	4694.6	4743.8	4793.0	4534.6	4480.5
69°	1914.2	1985.6	2226.7	2745.9	3589.8	4283.7	4719.2	4797.9	4837.3	4556.8	4364.9
70°	1675.6	1737.1	2015.1	2514.6	3405.3	4192.6	4736.4	4790.5	4829.9	4510.0	4175.4
72.5°	841.5	920.2	1301.6	1835.5	2706.5	3776.8	4647.8	4588.8	4546.9	4148.3	3378.2
75°	324.8	337.1	558.5	1045.7	1692.8	2772.9	3968.7	3858.0	3735.0	3146.9	2002.8
77.5°	179.6	177.2	243.6	462.6	720.9	1355.7	2684.4	2507.2	2337.4	1690.3	812.0
80°	76.3	81.2	105.8	221.4	378.9	469.9	1304.0	1158.9	922.7	536.4	194.4
82.5°	46.7	49.2	73.8	135.3	263.3	179.6	423.2	361.7	265.7	145.2	46.7
85°	14.8	17.2	51.7	91.0	127.9	73.8	96.0	83.7	73.8	61.5	14.8
87.5°	2.5	2.5	19.7	49.2	34.4	12.3	9.8	17.2	27.1	29.5	4.9
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°	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8
2.5°	826.7	821.8	816.9	814.4	814.4	809.5	807.0	804.6	804.6	802.1	802.1
5°	836.6	831.6	826.7	824.3	819.3	816.9	816.9	816.9	814.4	816.9	819.3
7.5°	861.2	853.8	851.3	848.9	848.9	841.5	829.2	797.2	765.2	755.4	745.5
10°	895.6	893.1	893.1	893.1	875.9	812.0	723.4	644.6	602.8	568.4	568.4
12.5°	944.8	944.8	942.4	935.0	846.4	691.4	553.6	435.5	366.6	327.2	332.2
15°	998.9	996.5	1001.4	954.7	745.5	533.9	334.6	236.2	199.3	194.4	194.4
17.5°	1055.5	1060.5	1055.5	903.0	612.7	329.7	199.3	179.6	174.7	174.7	174.7
20°	1114.6	1109.7	1102.3	814.4	445.3	206.7	172.2	167.3	162.4	159.9	159.9
22.5°	1173.6	1168.7	1119.5	701.2	278.0	169.8	162.4	152.5	145.2	142.7	142.7
25°	1230.2	1230.2	1087.5	556.1	189.5	159.9	147.6	137.8	130.4	123.0	123.0
27.5°	1301.6	1306.5	1035.9	388.8	159.9	147.6	132.9	118.1	108.3	103.3	103.3
30°	1382.8	1390.2	952.2	253.4	145.2	130.4	115.6	98.4	83.7	78.7	76.3
32.5°	1478.7	1486.1	856.2	167.3	130.4	113.2	96.0	73.8	59.1	56.6	54.1
35°	1601.8	1584.5	740.6	132.9	113.2	96.0	73.8	51.7	41.8	39.4	39.4
37.5°	1754.3	1717.4	607.7	115.6	96.0	76.3	54.1	34.4	27.1	27.1	24.6
40°	1929.0	1825.7	469.9	103.3	81.2	59.1	34.4	22.1	17.2	17.2	17.2
42.5°	2120.9	1916.7	334.6	91.0	66.4	41.8	22.1	12.3	9.8	9.8	9.8
45°	2342.4	2000.4	228.8	78.7	56.6	29.5	12.3	4.9	4.9	4.9	4.9
47.5°	2563.8	2054.5	152.5	68.9	41.8	17.2	7.4	2.5	2.5	2.5	2.5
50°	2787.7	2096.3	118.1	59.1	29.5	9.8	2.5	0.0	0.0	0.0	0.0
52.5°	2987.0	2125.8	96.0	49.2	19.7	7.4	2.5	0.0	0.0	0.0	0.0
55°	3159.2	2128.3	83.7	39.4	14.8	4.9	0.0	0.0	0.0	0.0	0.0
57.5°	3333.9	2108.6	71.4	29.5	9.8	2.5	0.0	0.0	0.0	0.0	0.0
60°	3439.7	2057.0	56.6	22.1	7.4	2.5	0.0	0.0	0.0	0.0	0.0
62.5°	3503.7	1970.8	44.3	14.8	4.9	2.5	0.0	0.0	0.0	0.0	0.0
65°	3466.8	1862.6	32.0	9.8	4.9	2.5	0.0	0.0	0.0	0.0	0.0
67.5°	3294.6	1695.3	22.1	7.4	2.5	2.5	0.0	0.0	0.0	0.0	0.0
69°	3090.3	1542.7	19.7	4.9	2.5	2.5	0.0	0.0	0.0	0.0	0.0
70°	2910.7	1424.6	17.2	4.9	2.5	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	2167.7	917.8	14.8	4.9	2.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1217.9	307.6	9.8	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	457.6	78.7	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	100.9	19.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	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)