

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: P594141

Luminaire Tested: **ISC-PA1C-735-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594141  
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-PA1C-735-U-T3-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 615mA 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: 4831 lumens  
Efficiency: N/A  
Efficacy: 98.8 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

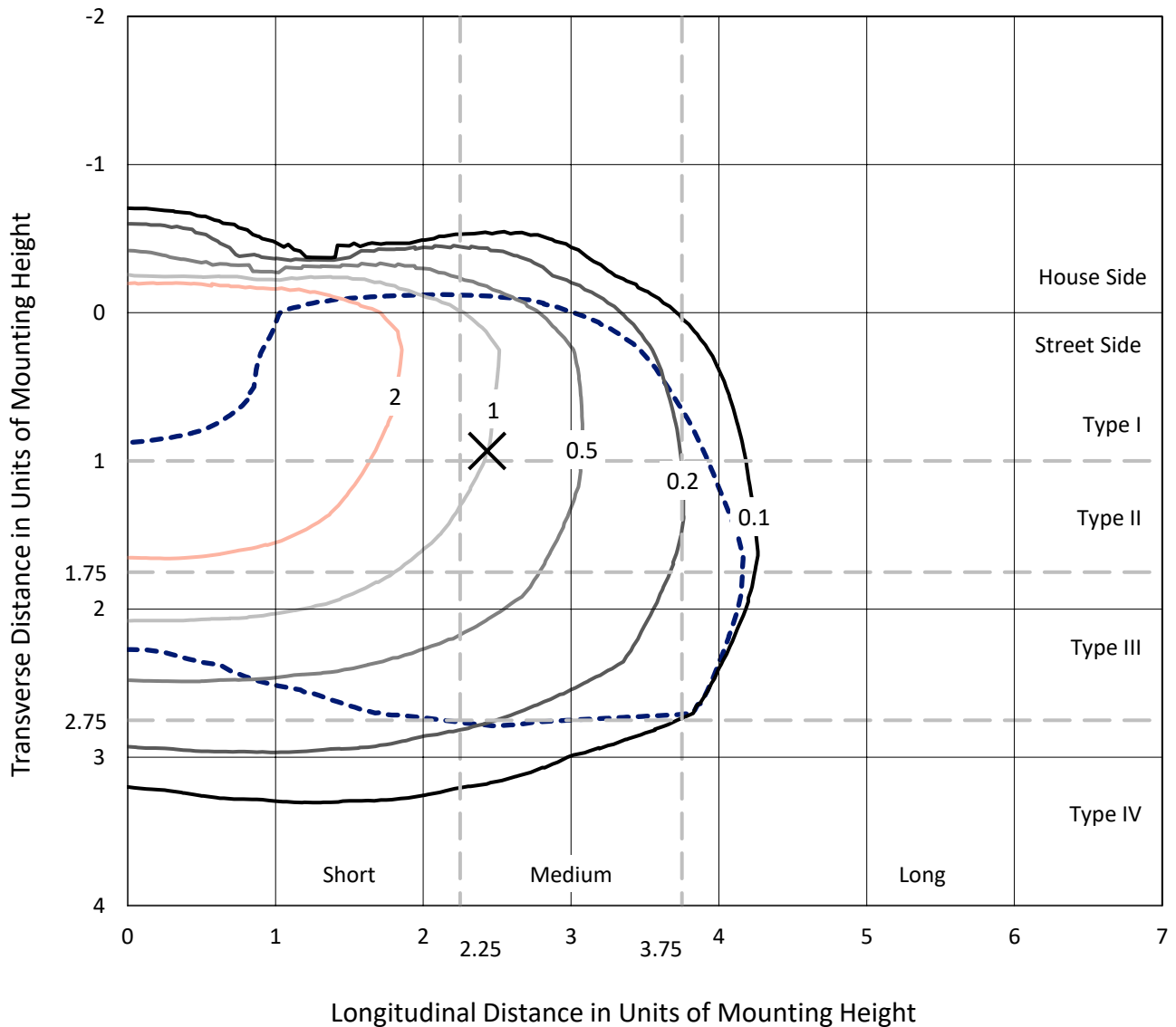
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

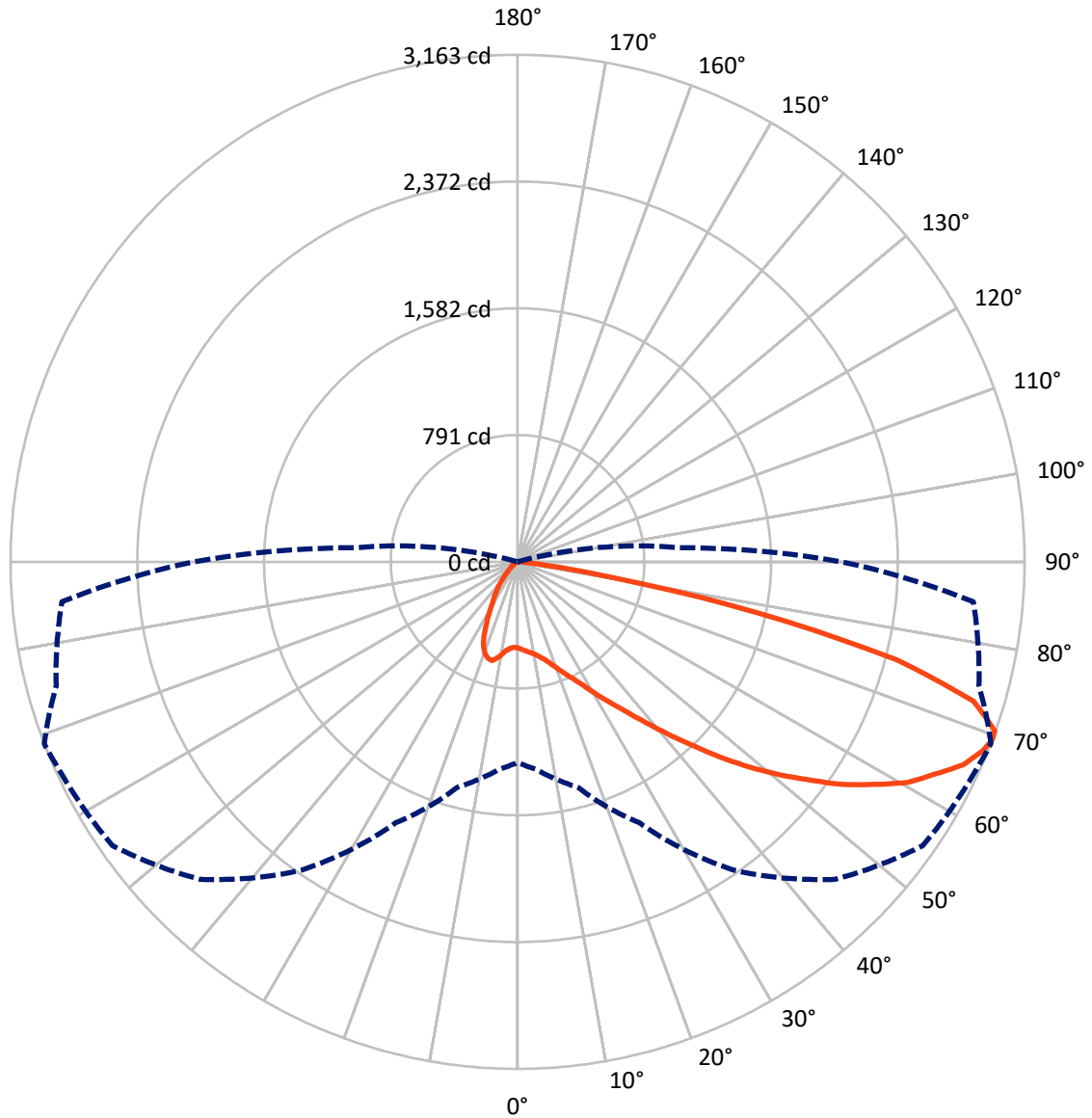
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.7 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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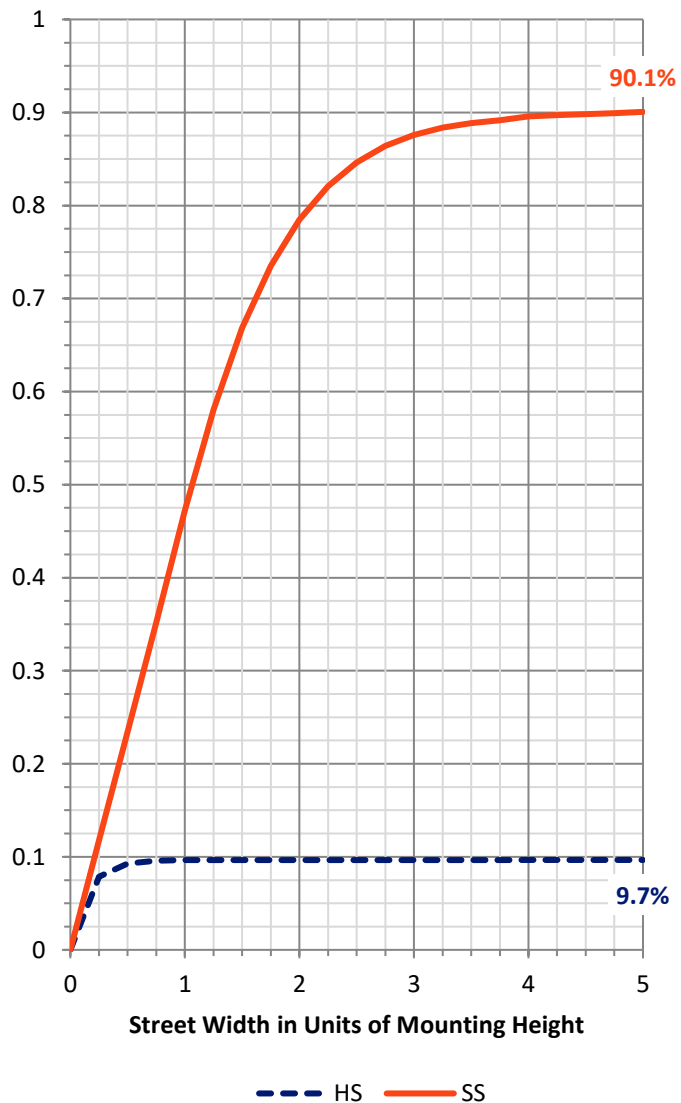
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	470.7	0.0	470.7
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	4360.3	0.0	4360.3
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	4831.0	0.0	4831.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.2	1.1
10°-20°	135.6	2.8
20°-30°	225.7	4.7
30°-40°	406.4	8.4
40°-50°	736.8	15.3
50°-60°	1151.5	23.8
60°-70°	1332.2	27.6
70°-80°	745.0	15.4
80°-90°	46.5	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°	4831.0	100.0
0°-180°	4831.0	100.0

**Coefficient of Utilization**

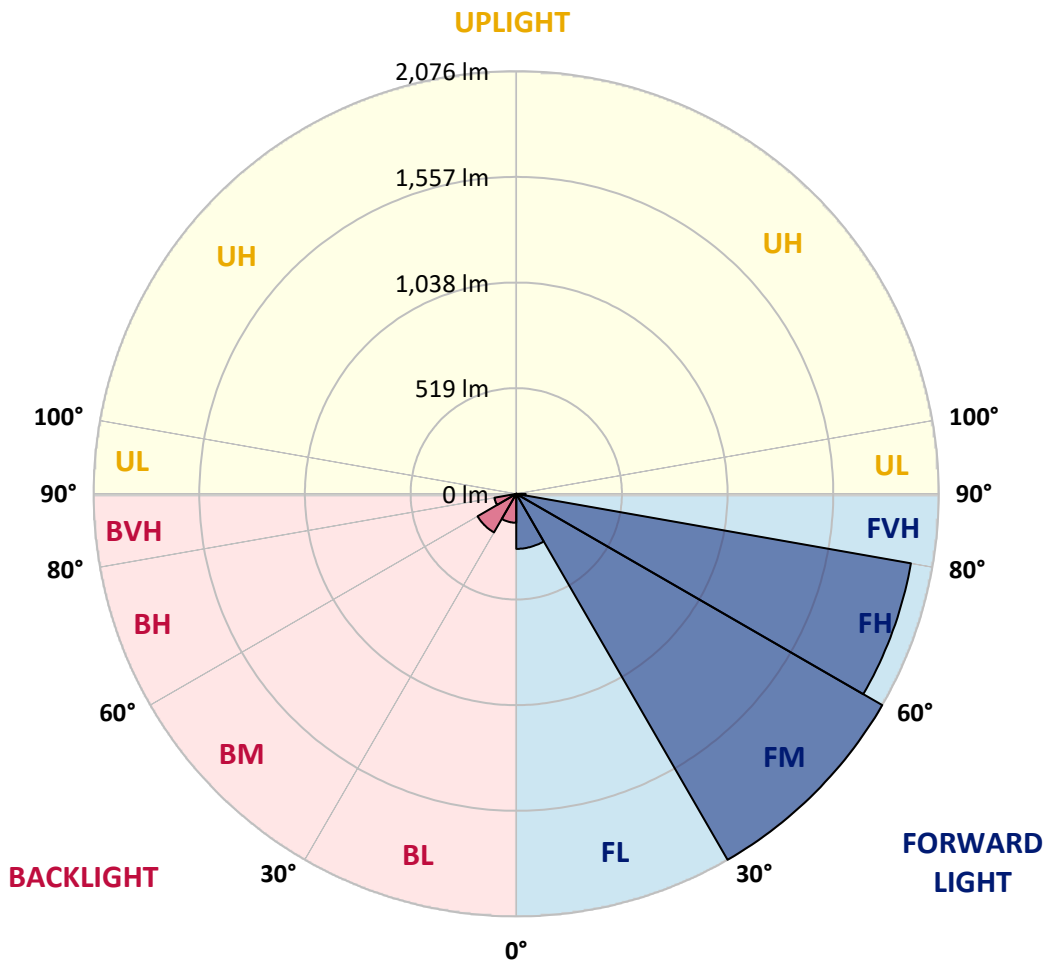


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.3	5.6			
FM (30°-60°)	2075.6	43.0			
FH (60°-80°)	1968.3	40.7			G2/5000
FVH (80°-90°)	46.2	1.0			G1/100
BL (0°-30°)	142.3	2.9	B1/500		
BM (30°-60°)	219.1	4.5	B0/220		
BH (60°-80°)	109.0	2.3	B0/110		G0/110
BVH (80°-90°)	0.3	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4
2.5°	556.7	556.7	556.7	553.5	555.1	553.5	551.9	547.0	548.6	547.0	542.2
5°	537.4	539.0	543.8	547.0	555.1	558.3	559.9	559.9	558.3	555.1	551.9
7.5°	500.4	500.4	505.2	514.8	530.9	548.6	563.1	571.2	572.8	572.8	567.9
10°	490.7	490.7	497.1	503.6	519.7	540.6	563.1	582.4	585.6	588.9	587.2
12.5°	485.9	487.5	493.9	505.2	526.1	545.4	569.5	596.9	606.6	614.6	616.2
15°	492.3	492.3	498.8	510.0	534.2	561.5	592.1	622.6	632.3	643.6	651.6
17.5°	502.0	505.2	508.4	519.7	542.2	576.0	616.2	656.4	667.7	682.2	688.6
20°	518.1	518.1	521.3	530.9	555.1	595.3	651.6	699.9	709.5	719.2	727.2
22.5°	537.4	539.0	539.0	547.0	574.4	617.8	682.2	741.7	757.8	762.6	765.8
25°	595.3	592.1	580.8	576.0	596.9	643.6	719.2	791.6	809.3	814.1	807.7
27.5°	716.0	703.1	672.5	640.3	637.1	683.8	769.1	854.3	873.6	875.2	852.7
30°	867.2	868.8	818.9	749.7	703.1	727.2	823.8	933.2	952.5	944.4	909.0
32.5°	1053.8	1045.8	1008.8	909.0	815.7	794.8	883.3	1015.2	1037.7	1024.9	978.2
35°	1213.1	1217.9	1172.9	1084.4	966.9	899.4	955.7	1106.9	1134.3	1111.7	1053.8
37.5°	1346.6	1353.1	1325.7	1253.3	1148.8	1042.6	1050.6	1214.7	1251.7	1229.2	1156.8
40°	1494.7	1499.5	1488.2	1409.4	1316.1	1213.1	1177.7	1338.6	1388.5	1357.9	1282.3
42.5°	1657.2	1674.9	1655.6	1592.8	1496.3	1407.8	1354.7	1489.8	1539.7	1520.4	1419.0
45°	1879.2	1880.8	1858.3	1795.5	1695.8	1623.4	1559.0	1650.7	1715.1	1690.9	1571.9
47.5°	2043.3	2054.6	2041.7	1998.2	1917.8	1869.5	1781.0	1827.7	1895.3	1864.7	1729.6
50°	2168.8	2199.4	2188.1	2201.0	2160.7	2139.8	2004.7	2011.1	2077.1	2051.3	1890.5
52.5°	2238.0	2276.6	2279.8	2345.8	2379.6	2431.0	2221.9	2212.2	2254.1	2231.5	2054.6
55°	2228.3	2238.0	2318.4	2439.1	2571.0	2688.5	2434.3	2394.0	2452.0	2389.2	2228.3
57.5°	2135.0	2159.1	2300.7	2450.3	2683.6	2854.2	2617.7	2572.6	2620.9	2537.2	2406.9
60°	2001.5	2036.9	2218.7	2432.6	2749.6	2953.9	2796.3	2751.2	2794.7	2693.3	2609.6
62.5°	1880.8	1896.9	2064.2	2358.6	2711.0	2949.1	2934.6	2892.8	2918.5	2812.3	2783.4
65°	1708.6	1715.1	1880.8	2225.1	2625.7	2916.9	3010.2	3026.3	3053.7	2912.1	2907.3
67.5°	1443.2	1457.7	1621.8	1991.8	2484.1	2854.2	3069.8	3101.9	3134.1	2965.2	2929.8
69°	1251.7	1298.4	1456.1	1795.5	2347.4	2801.1	3085.9	3137.3	3163.1	2979.7	2854.2
70°	1095.7	1135.9	1317.7	1644.3	2226.7	2741.6	3097.1	3132.5	3158.3	2949.1	2730.3
72.5°	550.2	601.7	851.1	1200.2	1769.8	2469.7	3039.2	3000.6	2973.2	2712.6	2209.0
75°	212.4	220.4	365.2	683.8	1106.9	1813.2	2595.1	2522.7	2442.3	2057.8	1309.6
77.5°	117.4	115.8	159.3	302.5	471.4	886.5	1755.3	1639.5	1528.5	1105.3	530.9
80°	49.9	53.1	69.2	144.8	247.8	307.3	852.7	757.8	603.3	350.7	127.1
82.5°	30.6	32.2	48.3	88.5	172.2	117.4	276.7	236.5	173.8	94.9	30.6
85°	9.7	11.3	33.8	59.5	83.7	48.3	62.7	54.7	48.3	40.2	9.7
87.5°	1.6	1.6	12.9	32.2	22.5	8.0	6.4	11.3	17.7	19.3	3.2
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°	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4
2.5°	540.6	537.4	534.2	532.5	532.5	529.3	527.7	526.1	526.1	524.5	524.5
5°	547.0	543.8	540.6	539.0	535.8	534.2	534.2	534.2	532.5	534.2	535.8
7.5°	563.1	558.3	556.7	555.1	555.1	550.2	542.2	521.3	500.4	493.9	487.5
10°	585.6	584.0	584.0	584.0	572.8	530.9	473.0	421.5	394.2	371.7	371.7
12.5°	617.8	617.8	616.2	611.4	553.5	452.1	362.0	284.8	239.7	214.0	217.2
15°	653.2	651.6	654.8	624.3	487.5	349.1	218.8	154.5	130.3	127.1	127.1
17.5°	690.2	693.4	690.2	590.5	400.6	215.6	130.3	117.4	114.2	114.2	114.2
20°	728.8	725.6	720.8	532.5	291.2	135.1	112.6	109.4	106.2	104.6	104.6
22.5°	767.4	764.2	732.0	458.5	181.8	111.0	106.2	99.8	94.9	93.3	93.3
25°	804.4	804.4	711.1	363.6	123.9	104.6	96.5	90.1	85.3	80.4	80.4
27.5°	851.1	854.3	677.3	254.2	104.6	96.5	86.9	77.2	70.8	67.6	67.6
30°	904.2	909.0	622.6	165.7	94.9	85.3	75.6	64.4	54.7	51.5	49.9
32.5°	966.9	971.8	559.9	109.4	85.3	74.0	62.7	48.3	38.6	37.0	35.4
35°	1047.4	1036.1	484.3	86.9	74.0	62.7	48.3	33.8	27.4	25.7	25.7
37.5°	1147.1	1123.0	397.4	75.6	62.7	49.9	35.4	22.5	17.7	17.7	16.1
40°	1261.4	1193.8	307.3	67.6	53.1	38.6	22.5	14.5	11.3	11.3	11.3
42.5°	1386.9	1253.3	218.8	59.5	43.4	27.4	14.5	8.0	6.4	6.4	6.4
45°	1531.7	1308.0	149.6	51.5	37.0	19.3	8.0	3.2	3.2	3.2	3.2
47.5°	1676.5	1343.4	99.8	45.0	27.4	11.3	4.8	1.6	1.6	1.6	1.6
50°	1822.9	1370.8	77.2	38.6	19.3	6.4	1.6	0.0	0.0	0.0	0.0
52.5°	1953.2	1390.1	62.7	32.2	12.9	4.8	1.6	0.0	0.0	0.0	0.0
55°	2065.8	1391.7	54.7	25.7	9.7	3.2	0.0	0.0	0.0	0.0	0.0
57.5°	2180.1	1378.8	46.7	19.3	6.4	1.6	0.0	0.0	0.0	0.0	0.0
60°	2249.2	1345.0	37.0	14.5	4.8	1.6	0.0	0.0	0.0	0.0	0.0
62.5°	2291.1	1288.7	29.0	9.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0
65°	2266.9	1217.9	20.9	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
67.5°	2154.3	1108.5	14.5	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0
69°	2020.8	1008.8	12.9	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
70°	1903.3	931.6	11.3	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1417.4	600.1	9.7	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
75°	796.4	201.1	6.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	299.3	51.5	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.0	12.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	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)