

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: P594305

Luminaire Tested: **ISC-PA1E-735-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
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-T4W-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7358 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

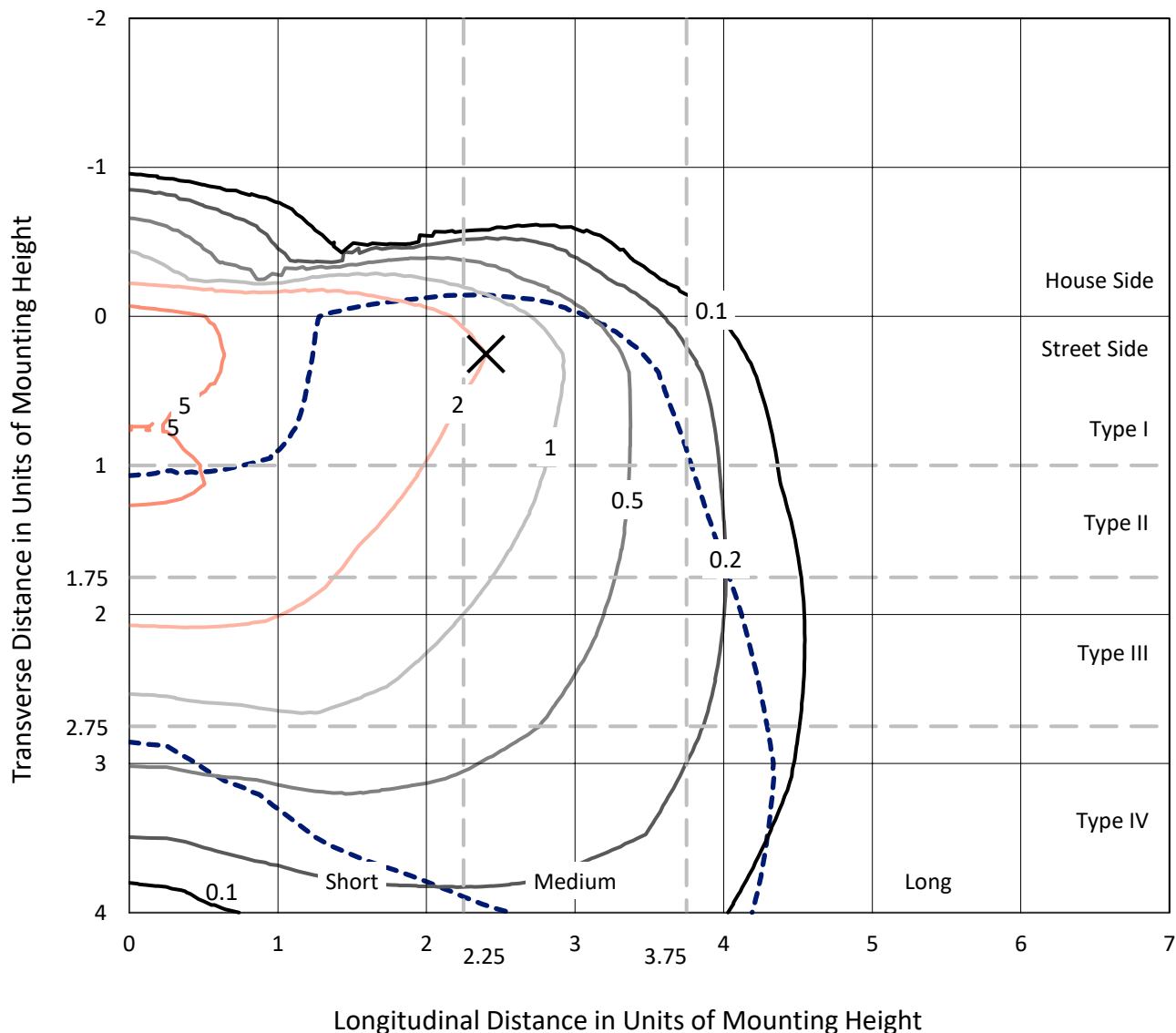
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

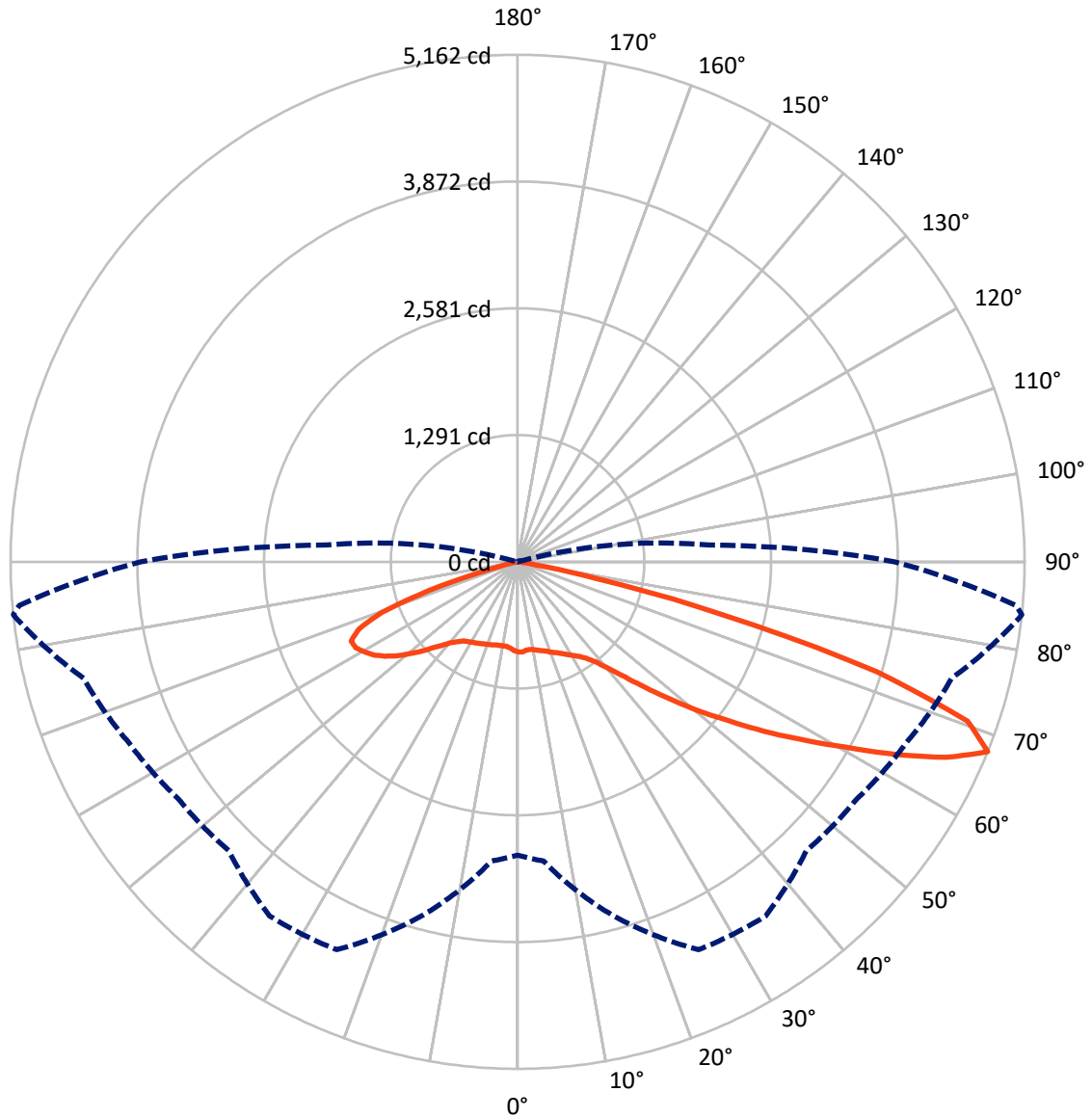
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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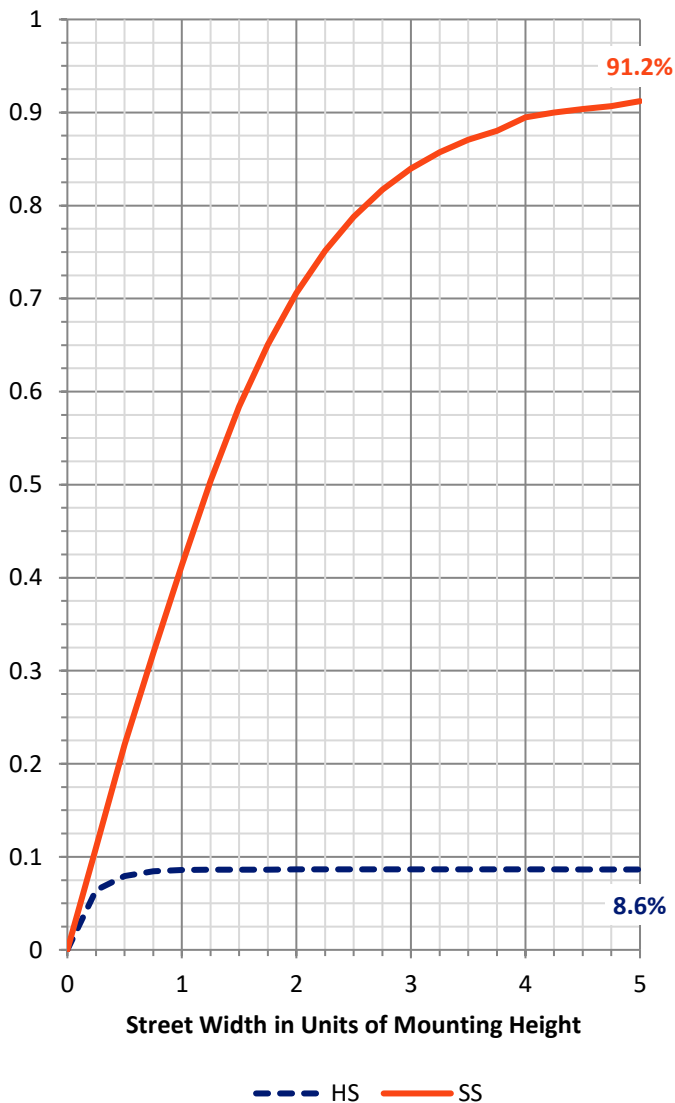
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	640.6	0.0	640.6
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	6717.4	0.0	6717.4
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	7358.0	0.0	7358.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.2	1.1
10°-20°	215.0	2.9
20°-30°	344.3	4.7
30°-40°	495.5	6.7
40°-50°	850.5	11.6
50°-60°	1486.0	20.2
60°-70°	2128.0	28.9
70°-80°	1599.5	21.7
80°-90°	157.0	2.1
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°	7358.0	100.0
0°-180°	7358.0	100.0

**Coefficient of Utilization**

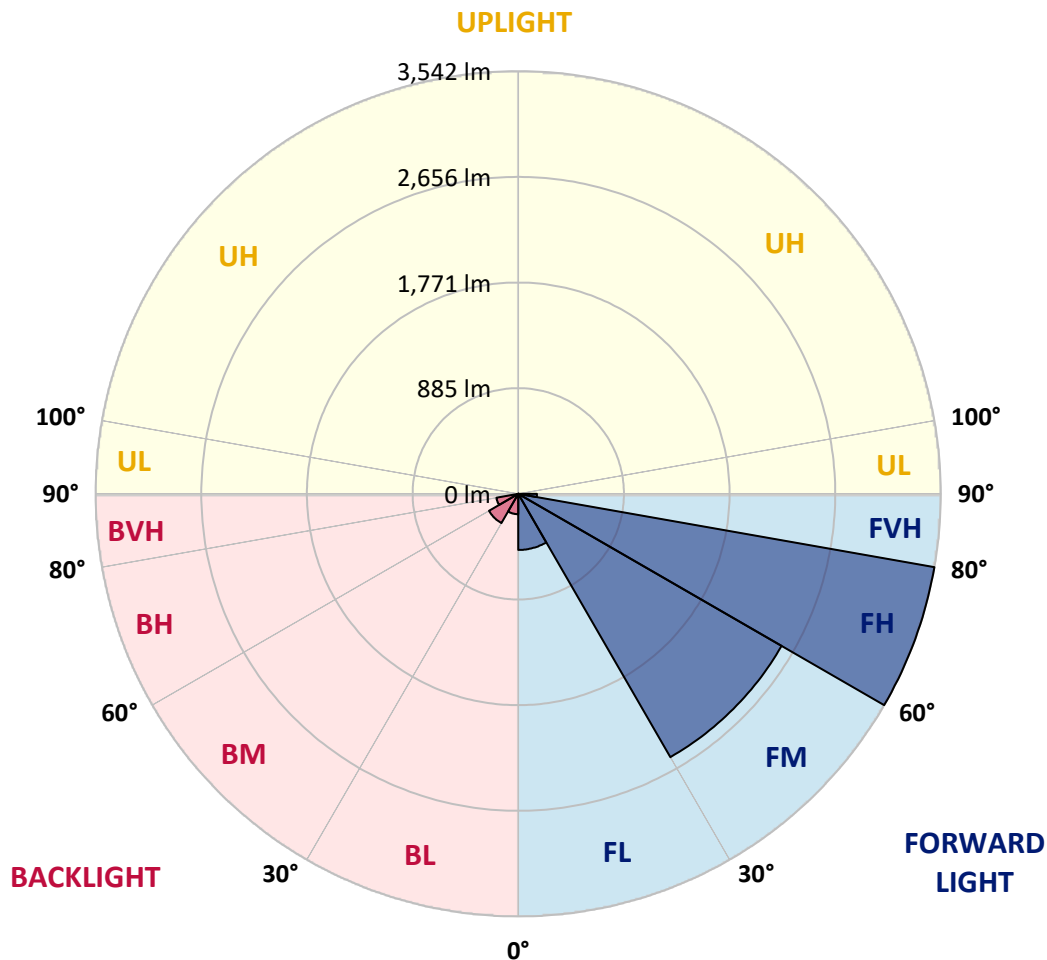


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.4	6.4			
FM (30°-60°)	2548.7	34.6			
FH (60°-80°)	3541.7	48.1			G2/5000
FVH (80°-90°)	156.5	2.1			G2/225
BL (0°-30°)	171.1	2.3	B1/500		
BM (30°-60°)	283.3	3.9	B1/1000		
BH (60°-80°)	185.7	2.5	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	916.7	916.7	916.7	916.7	916.7	916.7	916.7	916.7	916.7	916.7	916.7
2.5°	968.9	973.9	976.3	963.9	963.9	954.0	939.1	934.1	926.7	919.2	916.7
5°	1018.6	1026.0	1023.5	1008.6	1001.2	981.3	961.4	941.6	921.7	904.3	904.3
7.5°	1075.7	1078.2	1070.7	1045.9	1031.0	1003.7	973.9	951.5	926.7	901.8	896.8
10°	1125.4	1122.9	1113.0	1088.1	1060.8	1026.0	993.7	968.9	939.1	909.3	906.8
12.5°	1160.2	1162.7	1150.2	1115.5	1088.1	1048.4	1016.1	991.2	956.5	924.2	916.7
15°	1190.0	1197.4	1182.5	1147.8	1108.0	1073.2	1048.4	1016.1	976.3	939.1	934.1
17.5°	1217.3	1219.8	1207.4	1167.6	1130.4	1100.6	1073.2	1043.4	1003.7	956.5	951.5
20°	1232.2	1239.7	1232.2	1182.5	1147.8	1125.4	1103.0	1073.2	1028.5	983.8	978.8
22.5°	1242.2	1249.6	1247.1	1192.5	1162.7	1145.3	1125.4	1098.1	1055.8	1003.7	998.7
25°	1247.1	1252.1	1257.1	1202.4	1177.6	1170.1	1152.7	1127.9	1088.1	1033.5	1028.5
27.5°	1254.6	1259.6	1264.5	1214.8	1204.9	1197.4	1192.5	1172.6	1125.4	1068.3	1060.8
30°	1267.0	1274.5	1279.4	1237.2	1237.2	1244.6	1244.6	1217.3	1165.2	1105.5	1100.6
32.5°	1281.9	1284.4	1294.3	1259.6	1272.0	1289.4	1284.4	1257.1	1202.4	1147.8	1140.3
35°	1321.7	1321.7	1339.1	1294.3	1309.2	1324.1	1329.1	1309.2	1259.6	1204.9	1202.4
37.5°	1418.6	1418.6	1433.5	1361.4	1358.9	1373.8	1391.2	1391.2	1341.5	1291.9	1286.9
40°	1637.2	1637.2	1637.2	1470.7	1443.4	1460.8	1488.1	1503.0	1460.8	1426.0	1426.0
42.5°	2002.4	2004.9	1967.6	1672.0	1555.2	1585.0	1614.8	1647.1	1624.8	1599.9	1594.9
45°	2380.0	2367.6	2362.6	1967.6	1753.9	1739.0	1776.3	1831.0	1838.4	1823.5	1833.4
47.5°	2638.4	2650.8	2658.2	2335.3	2032.2	1930.3	1965.1	2042.1	2086.8	2084.4	2099.3
50°	2889.3	2896.7	2904.2	2740.2	2399.9	2171.3	2193.7	2298.0	2360.1	2380.0	2389.9
52.5°	3107.9	3088.0	3120.3	3098.0	2789.9	2447.1	2447.1	2566.3	2678.1	2685.6	2683.1
55°	3172.5	3184.9	3281.8	3348.9	3189.9	2784.9	2735.2	2861.9	2981.2	3043.3	3043.3
57.5°	3316.6	3329.0	3445.8	3597.3	3480.5	3117.8	3043.3	3167.5	3296.7	3416.0	3433.3
60°	3505.4	3507.9	3632.1	3863.1	3701.7	3418.4	3356.3	3497.9	3627.1	3830.8	3888.0
62.5°	3607.2	3617.2	3788.6	4091.7	3979.9	3681.8	3666.9	3796.1	3962.5	4320.3	4372.4
65°	3450.7	3515.3	3888.0	4228.3	4206.0	3927.7	3979.9	4084.2	4275.5	4799.7	4849.4
67.5°	2986.2	3058.2	3724.0	4357.5	4402.2	4158.8	4213.4	4365.0	4576.1	5162.4	5092.9
70°	2750.2	2809.8	3326.5	4429.6	4566.2	4417.1	4442.0	4583.6	4645.7	4859.4	4784.8
72.5°	2084.4	2146.5	2814.7	4183.6	4707.8	4687.9	4625.8	4509.1	4141.4	3823.4	3642.0
75°	921.7	993.7	1873.2	3269.4	4357.5	4842.0	4514.0	3860.7	2973.7	2171.3	2012.3
77.5°	407.4	449.7	725.4	1816.0	3274.3	4191.1	3570.0	2573.8	1493.1	807.4	750.3
80°	131.7	136.6	228.6	636.0	1674.4	2775.0	2186.2	1237.2	459.6	188.8	176.4
82.5°	52.2	57.1	109.3	268.3	693.1	1103.0	1073.2	447.2	134.2	49.7	49.7
85°	14.9	17.4	54.7	141.6	245.9	310.5	380.1	149.1	72.0	14.9	14.9
87.5°	5.0	5.0	19.9	44.7	47.2	32.3	72.0	57.1	44.7	5.0	5.0
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°	916.7	916.7	916.7	916.7	916.7	916.7	916.7	916.7	916.7	916.7	916.7
2.5°	911.7	906.8	894.4	884.4	879.5	872.0	862.1	857.1	857.1	854.6	847.2
5°	894.4	886.9	864.5	849.6	837.2	809.9	790.0	765.2	740.3	732.9	740.3
7.5°	886.9	872.0	842.2	812.4	760.2	688.2	641.0	588.8	571.4	549.0	551.5
10°	889.4	872.0	829.8	762.7	660.8	554.0	479.5	409.9	375.1	357.7	360.2
12.5°	896.8	877.0	817.3	695.6	549.0	419.9	305.6	250.9	241.0	241.0	241.0
15°	911.7	881.9	797.5	616.1	429.8	278.2	216.1	211.2	218.6	226.1	228.6
17.5°	926.7	896.8	767.7	534.1	313.0	208.7	201.2	201.2	208.7	216.1	218.6
20°	944.0	911.7	725.4	447.2	223.6	196.3	193.8	191.3	196.3	203.7	206.2
22.5°	971.4	926.7	675.7	345.3	193.8	188.8	183.8	181.4	183.8	191.3	193.8
25°	996.2	946.5	623.6	255.9	181.4	176.4	173.9	171.4	171.4	176.4	178.9
27.5°	1026.0	968.9	566.4	191.3	166.5	164.0	161.5	159.0	156.5	161.5	164.0
30°	1063.3	988.8	504.3	161.5	151.5	149.1	146.6	144.1	141.6	144.1	146.6
32.5°	1110.5	1016.1	432.3	146.6	139.1	131.7	129.2	129.2	126.7	126.7	129.2
35°	1172.6	1045.9	355.3	136.6	126.7	119.2	111.8	109.3	109.3	109.3	111.8
37.5°	1264.5	1100.6	280.7	126.7	116.8	104.3	96.9	89.4	89.4	89.4	89.4
40°	1391.2	1160.2	218.6	119.2	109.3	91.9	82.0	72.0	67.1	64.6	67.1
42.5°	1587.5	1249.6	168.9	109.3	104.3	82.0	67.1	54.7	44.7	42.2	44.7
45°	1803.6	1346.5	134.2	101.9	94.4	69.6	52.2	37.3	27.3	24.8	27.3
47.5°	2076.9	1468.2	114.3	91.9	82.0	57.1	37.3	19.9	12.4	14.9	14.9
50°	2340.2	1587.5	104.3	84.5	72.0	47.2	22.4	9.9	5.0	7.5	7.5
52.5°	2630.9	1714.2	96.9	74.5	62.1	34.8	12.4	2.5	0.0	2.5	2.5
55°	2924.1	1828.5	89.4	67.1	49.7	24.8	5.0	0.0	0.0	0.0	2.5
57.5°	3242.1	1925.4	82.0	57.1	37.3	14.9	2.5	0.0	0.0	0.0	0.0
60°	3507.9	1999.9	74.5	49.7	24.8	7.5	0.0	0.0	0.0	0.0	0.0
62.5°	3751.3	2067.0	57.1	37.3	14.9	5.0	0.0	0.0	0.0	0.0	0.0
65°	3912.8	2081.9	39.7	24.8	9.9	2.5	0.0	0.0	0.0	0.0	0.0
67.5°	3840.8	1952.7	24.8	17.4	5.0	2.5	0.0	0.0	0.0	0.0	0.0
70°	3376.2	1639.7	17.4	9.9	2.5	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	2362.6	1058.3	14.9	7.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1247.1	382.6	9.9	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	442.2	84.5	5.0	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	96.9	17.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	0.0	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)