

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: P458714

Luminaire Tested: **GALN-SA2C-735-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9527 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

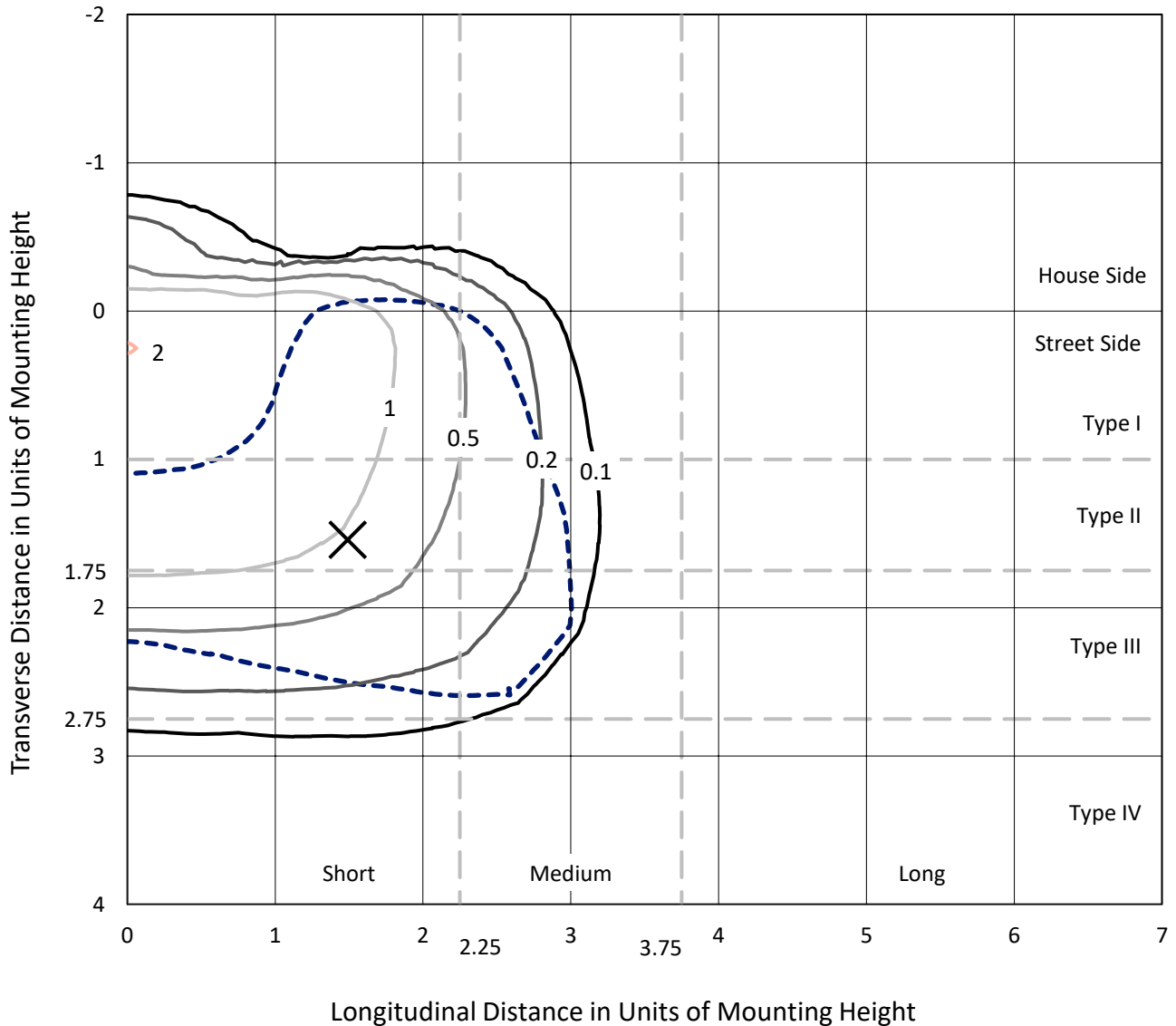
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

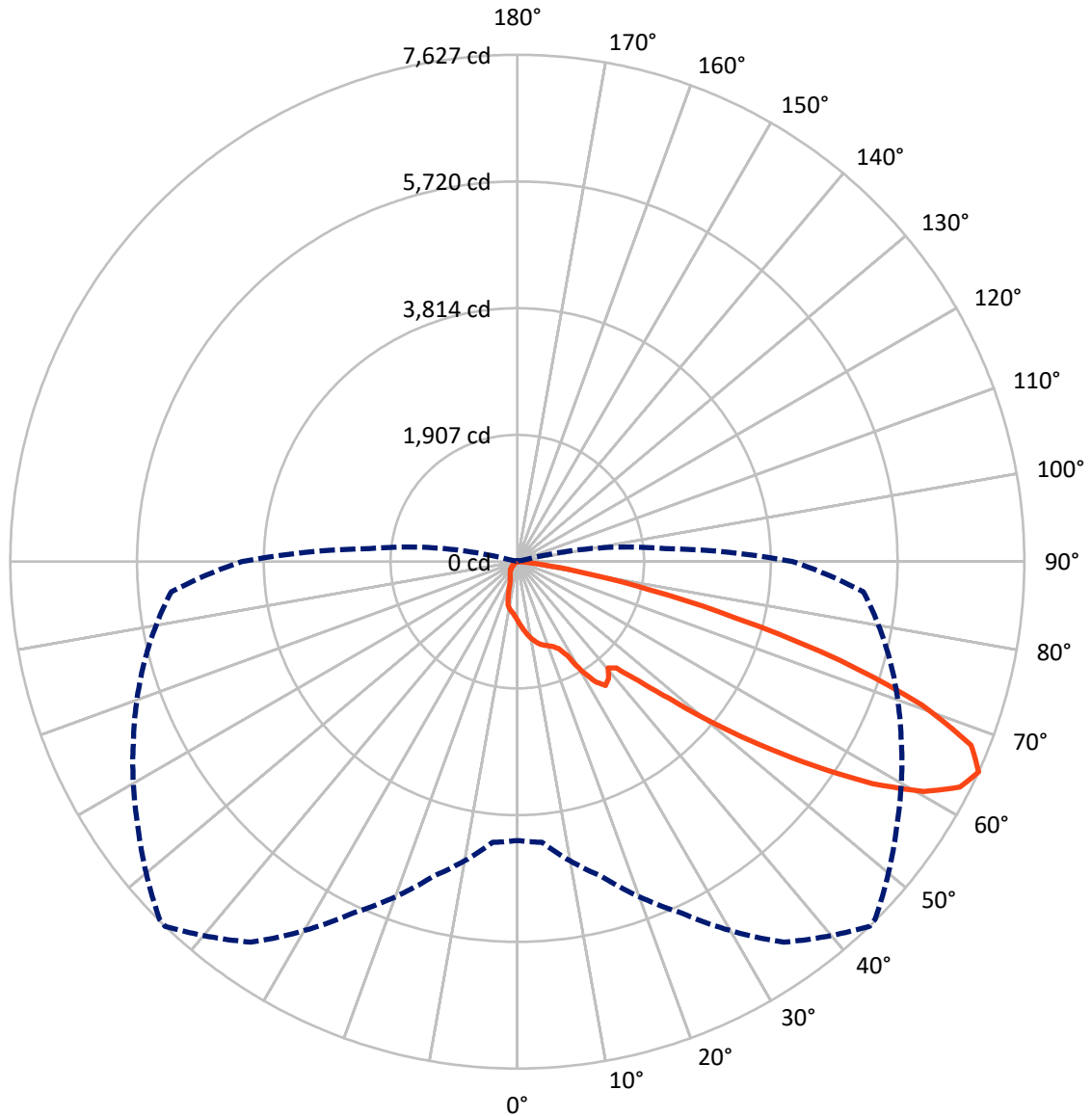
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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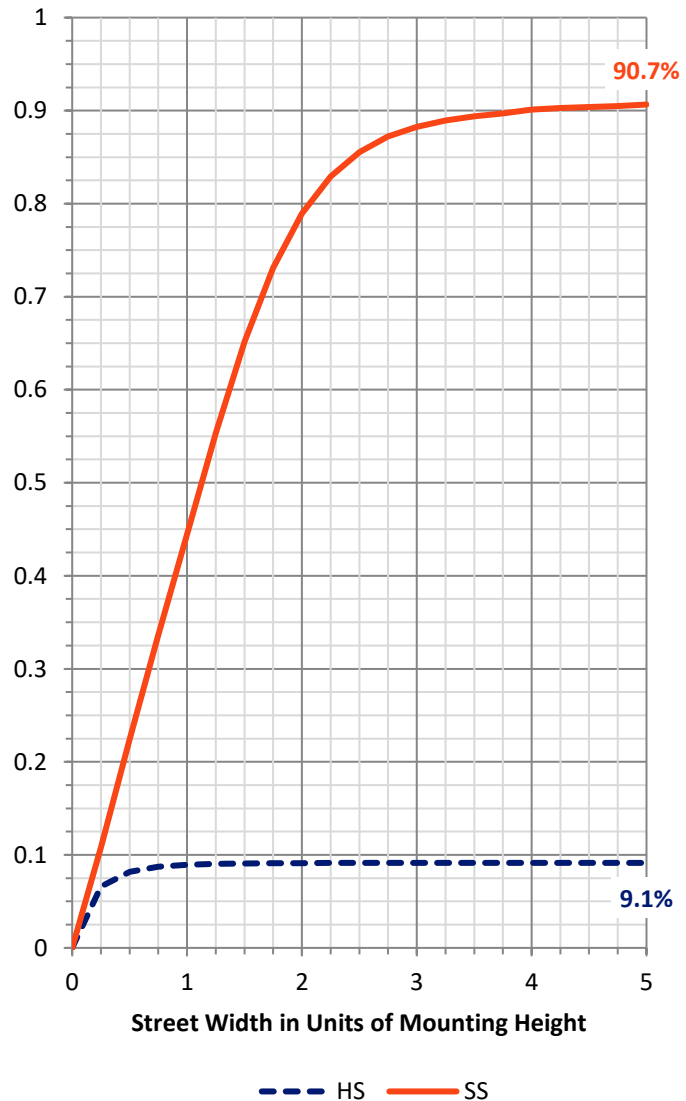
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	877.8	0.0	877.8
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	8649.2	0.0	8649.2
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	9527.0	0.0	9527.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	0.9
10°-20°	265.4	2.8
20°-30°	450.1	4.7
30°-40°	748.3	7.9
40°-50°	1306.5	13.7
50°-60°	2552.5	26.8
60°-70°	2961.5	31.1
70°-80°	1078.4	11.3
80°-90°	76.0	0.8
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°	9527.0	100.0
0°-180°	9527.0	100.0



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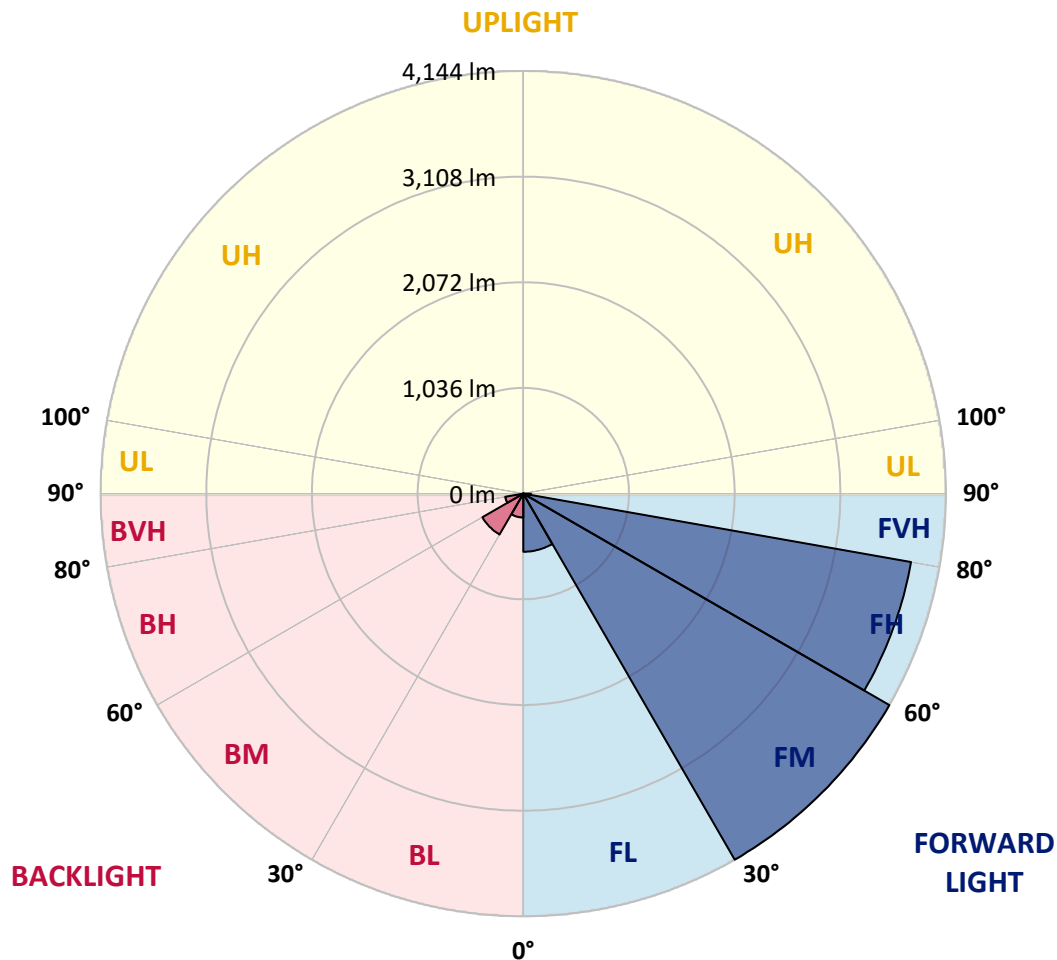
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.8	6.0			
FM (30°-60°)	4144.3	43.5			
FH (60°-80°)	3860.2	40.5			G2/5000
FVH (80°-90°)	75.0	0.8			G1/100
BL (0°-30°)	233.9	2.5	B1/500		
BM (30°-60°)	463.1	4.9	B1/1000		
BH (60°-80°)	179.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7
2.5°	998.1	993.7	991.5	979.9	971.1	960.2	960.2	946.4	930.4	912.9	896.9
5°	1109.4	1102.2	1092.7	1082.5	1062.1	1033.0	1033.0	1003.9	970.4	940.6	907.8
7.5°	1216.5	1209.9	1193.9	1174.2	1140.7	1110.2	1108.0	1065.8	1025.7	980.6	934.0
10°	1310.4	1305.3	1291.4	1253.6	1218.6	1178.6	1177.9	1130.6	1084.0	1028.6	971.1
12.5°	1375.9	1376.6	1358.4	1322.0	1276.9	1239.0	1236.1	1189.5	1140.7	1081.1	1010.4
15°	1422.5	1422.5	1403.5	1362.8	1322.0	1288.5	1285.6	1244.8	1194.6	1129.8	1053.4
17.5°	1435.6	1439.9	1419.6	1383.2	1350.4	1321.3	1320.6	1286.3	1246.3	1183.7	1097.1
20°	1430.5	1434.8	1418.8	1390.4	1367.9	1351.1	1348.9	1335.1	1298.0	1239.0	1143.7
22.5°	1419.6	1423.9	1412.3	1395.5	1384.6	1389.7	1386.1	1397.7	1378.1	1306.7	1199.0
25°	1421.7	1426.1	1417.4	1407.9	1417.4	1448.7	1458.1	1508.4	1490.9	1392.6	1258.7
27.5°	1490.2	1498.9	1486.5	1490.9	1524.4	1597.2	1615.4	1702.0	1624.9	1501.8	1351.9
30°	1642.3	1636.5	1613.2	1634.3	1750.8	1905.1	1900.0	1886.2	1765.4	1627.8	1462.5
32.5°	1780.6	1775.5	1774.1	1865.1	2076.2	2151.2	2147.5	2013.6	1891.3	1771.9	1571.7
35°	1836.7	1817.0	1812.7	2033.2	2386.3	2287.3	2264.7	2066.0	2044.2	1929.1	1683.1
37.5°	2005.6	1991.8	1924.1	2060.9	2262.6	2229.8	2212.3	2156.3	2207.2	2068.2	1809.0
40°	2353.6	2315.0	2253.8	2119.9	2087.1	2101.0	2118.4	2272.0	2400.1	2258.2	1977.2
42.5°	2786.0	2777.2	2663.7	2414.0	2168.7	2187.6	2210.1	2513.7	2677.5	2544.3	2251.6
45°	3305.0	3317.4	3153.6	2858.8	2537.0	2553.0	2585.8	2870.4	3053.1	2989.1	2683.3
47.5°	3776.8	3767.3	3712.0	3405.5	3108.5	3072.8	3125.9	3328.3	3572.9	3583.1	3219.1
50°	4251.4	4301.6	4219.4	4099.3	3878.7	3803.7	3784.0	3883.0	4255.8	4207.0	3862.7
52.5°	4933.5	4959.7	4805.4	4774.8	4825.1	4581.9	4562.3	4586.3	4919.7	4752.3	4344.6
55°	5362.3	5347.0	5289.5	5528.3	5727.0	5423.5	5398.7	5301.9	5470.8	5137.4	4808.3
57.5°	5497.7	5519.5	5653.5	6085.2	6555.5	6297.8	6252.6	5977.4	5868.2	5496.2	5234.9
60°	5437.3	5477.3	5766.3	6408.4	7060.7	7022.1	6983.5	6521.2	6153.6	5796.2	5534.1
62.5°	5007.0	5063.1	5525.4	6350.9	7231.8	7472.7	7424.7	6860.5	6343.6	5941.8	5586.5
65°	4196.1	4237.6	4901.5	5828.9	6988.6	7627.0	7609.6	6966.8	6373.5	5808.6	5227.6
67.5°	2991.3	3132.5	3747.6	4912.4	6269.4	7363.5	7393.4	6839.4	6093.2	5232.7	4329.3
70°	1880.4	1976.5	2417.6	3516.9	5026.0	6460.1	6558.4	6256.3	5288.0	4078.9	2898.1
72.5°	896.9	968.2	1282.7	2226.2	3547.4	5082.8	5160.6	5135.9	4089.1	2569.8	1495.3
75°	399.7	426.6	612.2	1136.4	2290.2	3416.4	3618.1	3651.5	2555.2	1257.2	581.7
77.5°	203.8	204.6	286.8	550.4	1143.7	2038.3	2078.4	2195.6	1385.3	554.0	202.4
80°	108.5	115.7	152.1	259.9	593.3	1003.9	998.8	1097.8	614.4	271.5	67.7
82.5°	48.8	53.9	85.9	136.1	289.7	380.7	410.6	449.2	263.5	173.3	29.8
85°	14.6	17.5	42.2	68.4	104.8	109.9	123.0	158.7	149.2	123.0	15.3
87.5°	2.2	2.2	17.5	18.9	15.3	19.7	20.4	22.6	48.0	45.1	8.0
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°	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7
2.5°	888.1	883.0	864.8	849.6	836.4	828.4	819.0	813.2	810.2	808.1	808.8
5°	891.8	879.4	848.1	823.3	804.4	784.0	770.2	762.2	758.6	752.7	752.7
7.5°	912.2	892.5	848.8	811.0	778.2	750.5	724.3	714.9	708.3	706.9	705.4
10°	941.3	916.5	856.8	804.4	757.8	720.0	682.8	650.1	624.6	609.3	607.1
12.5°	977.7	942.0	869.2	800.0	740.4	673.4	575.1	508.9	464.5	450.6	452.8
15°	1011.2	972.6	881.6	796.4	708.3	558.4	447.0	371.3	348.7	346.5	347.2
17.5°	1051.2	1005.3	896.1	791.3	620.2	426.6	332.0	311.6	315.9	323.2	322.5
20°	1092.7	1040.3	913.6	760.7	495.0	321.0	293.4	295.6	302.1	308.7	310.1
22.5°	1137.1	1080.3	934.0	687.2	377.8	279.5	278.1	281.0	287.6	294.8	296.3
25°	1198.3	1130.6	949.3	591.1	286.1	258.4	261.3	266.4	272.3	280.3	281.7
27.5°	1276.9	1198.3	957.3	465.9	247.5	239.5	240.2	247.5	254.8	262.1	262.1
30°	1378.8	1279.1	941.3	352.3	228.6	221.3	218.4	222.8	232.2	239.5	240.2
32.5°	1469.8	1355.5	899.1	269.4	214.8	204.6	197.3	198.0	201.7	206.0	206.7
35°	1560.8	1429.8	827.0	226.4	200.2	188.5	177.6	171.8	168.9	166.7	168.9
37.5°	1677.3	1522.2	730.9	206.0	187.8	173.3	158.0	145.6	135.4	128.9	130.3
40°	1827.2	1650.3	617.3	192.9	176.2	158.7	138.3	122.3	104.8	99.0	96.1
42.5°	2074.7	1844.7	497.9	182.0	164.5	143.4	117.9	96.1	80.1	74.3	75.7
45°	2465.7	2090.0	383.6	170.3	152.9	126.7	99.0	75.7	62.6	59.7	61.2
47.5°	2984.0	2407.4	295.6	157.2	138.3	108.5	77.9	59.7	51.7	51.0	50.2
50°	3471.7	2703.0	246.8	142.7	120.8	90.3	64.1	50.2	45.1	44.4	44.4
52.5°	3912.9	2914.8	200.9	125.9	101.9	74.3	53.9	44.4	40.0	37.9	37.9
55°	4305.3	3053.1	163.1	105.6	80.1	59.0	46.6	40.0	34.9	32.0	31.3
57.5°	4601.6	3069.9	122.3	84.4	59.7	45.9	40.0	34.9	29.1	25.5	24.0
60°	4728.2	2925.0	90.3	64.1	44.4	36.4	32.0	28.4	21.8	18.2	17.5
62.5°	4600.8	2643.3	67.0	48.8	34.2	26.9	22.6	21.1	15.3	10.9	10.2
65°	4144.4	2236.4	53.1	37.1	25.5	19.7	14.6	13.8	9.5	5.1	4.4
67.5°	3320.3	1751.5	42.2	27.7	18.2	13.1	9.5	8.7	5.1	1.5	1.5
70°	2159.2	1119.6	34.2	20.4	11.6	8.7	5.8	4.4	2.9	0.7	0.0
72.5°	1067.9	523.4	27.7	16.0	8.0	4.4	2.2	1.5	2.2	0.0	0.0
75°	414.2	186.4	20.4	10.9	4.4	2.2	1.5	0.0	0.7	0.0	0.0
77.5°	137.6	61.9	12.4	5.8	2.9	1.5	0.0	0.0	0.0	0.0	0.0
80°	51.0	24.0	6.6	3.6	1.5	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	20.4	9.5	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	5.8	2.9	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	4.4	2.9	2.2	1.5	0.7	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)