

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: P651811

Luminaire Tested: **GALN-SA3A-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8988.6 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

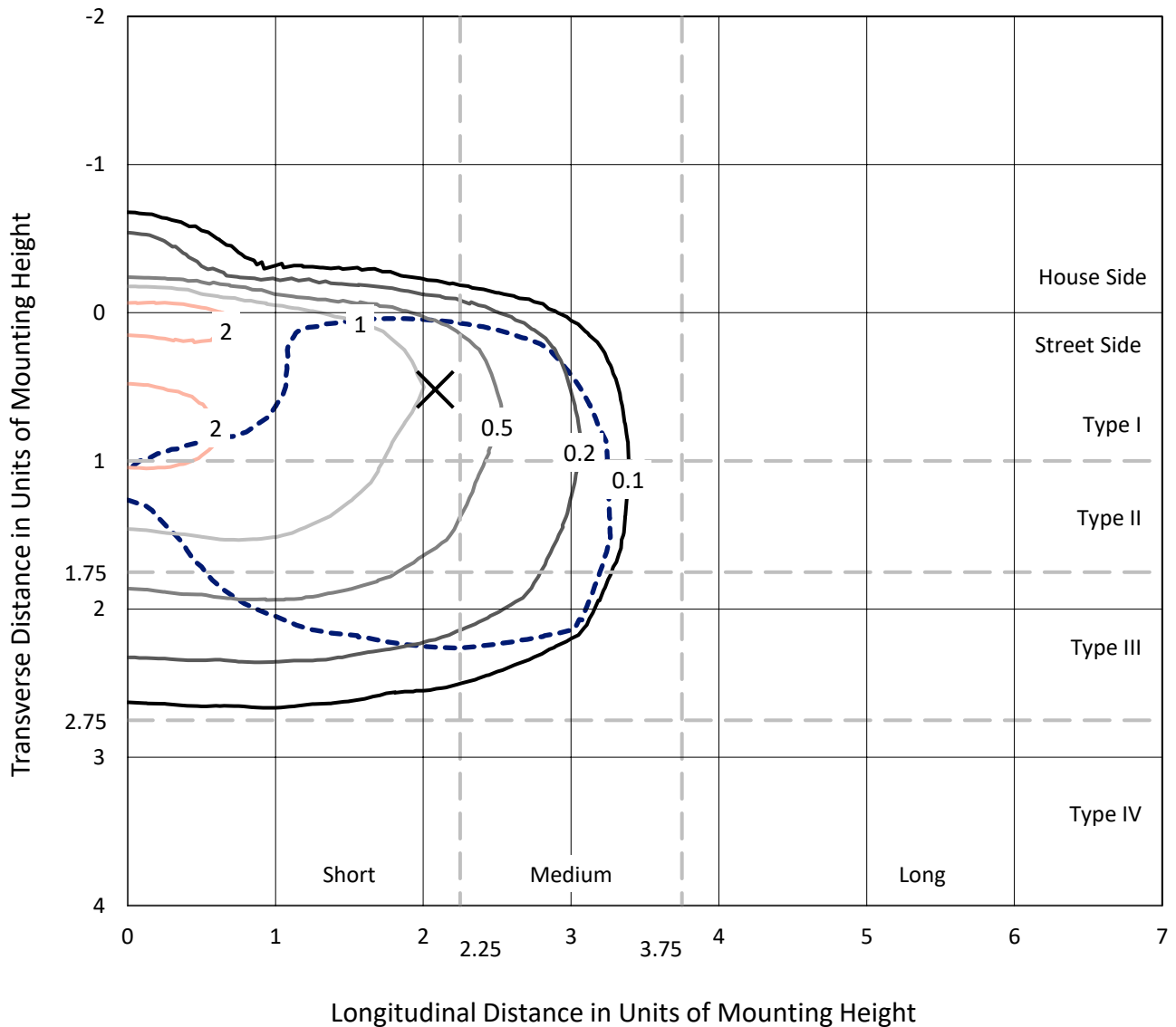
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

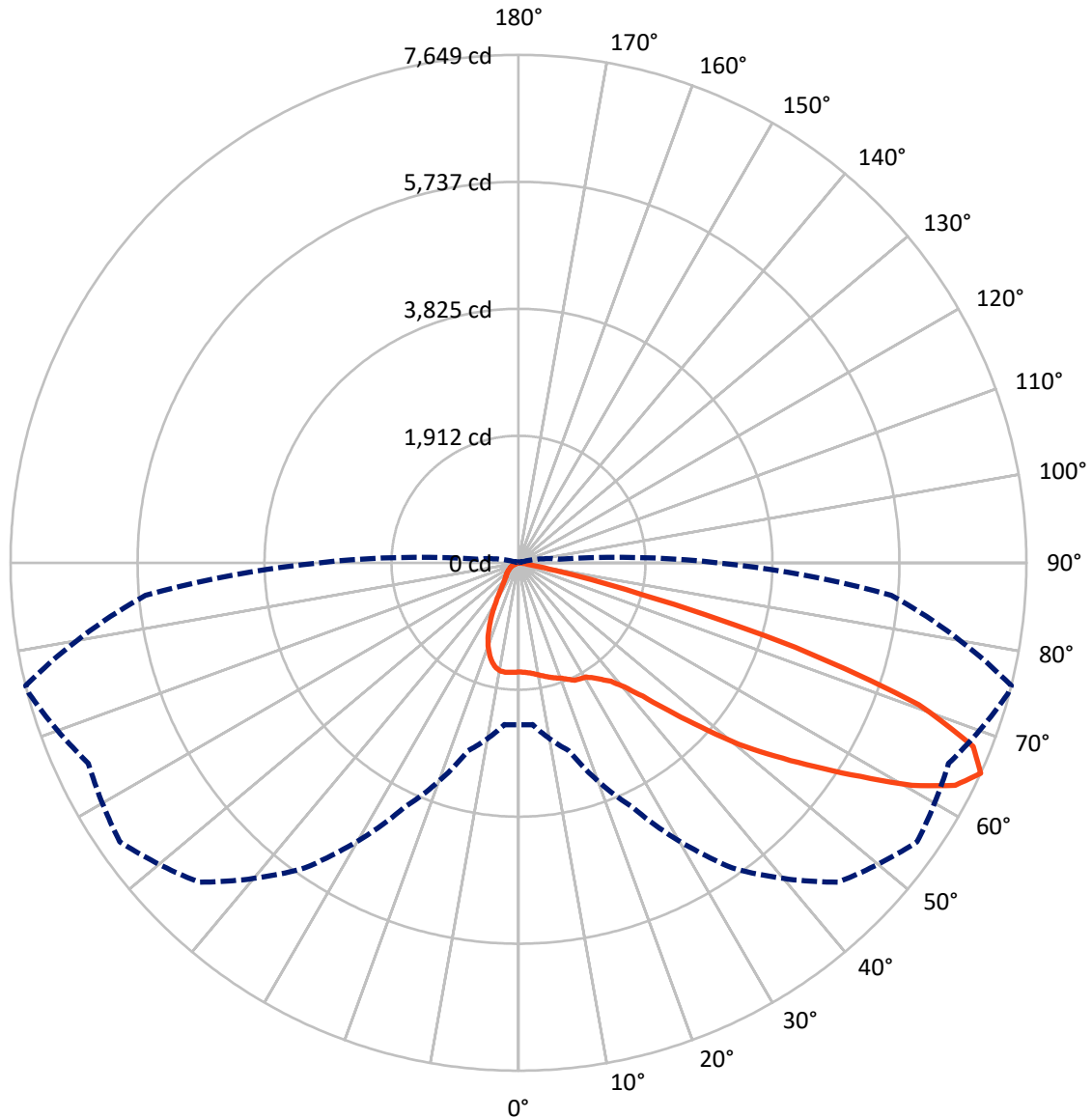
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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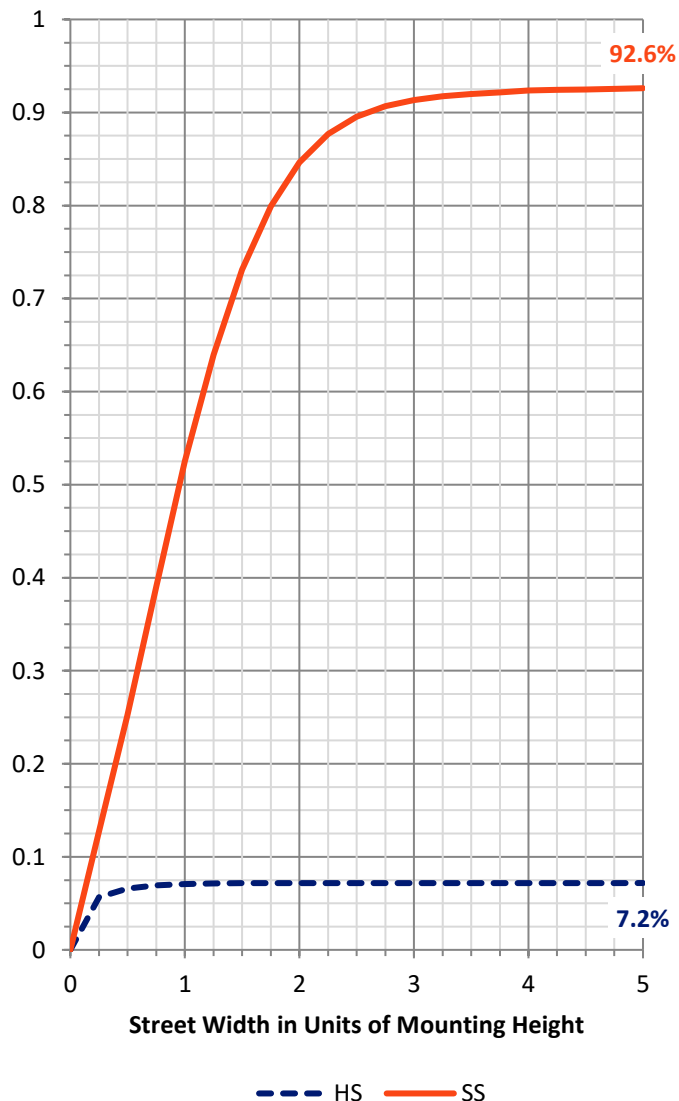
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	649.2	0.0	649.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8339.5	0.0	8339.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	8988.6	0.0	8988.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	1.5
10°-20°	301.6	3.4
20°-30°	486.0	5.4
30°-40°	845.0	9.4
40°-50°	1396.3	15.5
50°-60°	2157.1	24.0
60°-70°	2634.1	29.3
70°-80°	999.7	11.1
80°-90°	33.4	0.4
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°	8988.6	100.0
0°-180°	8988.6	100.0

Coefficient of Utilization



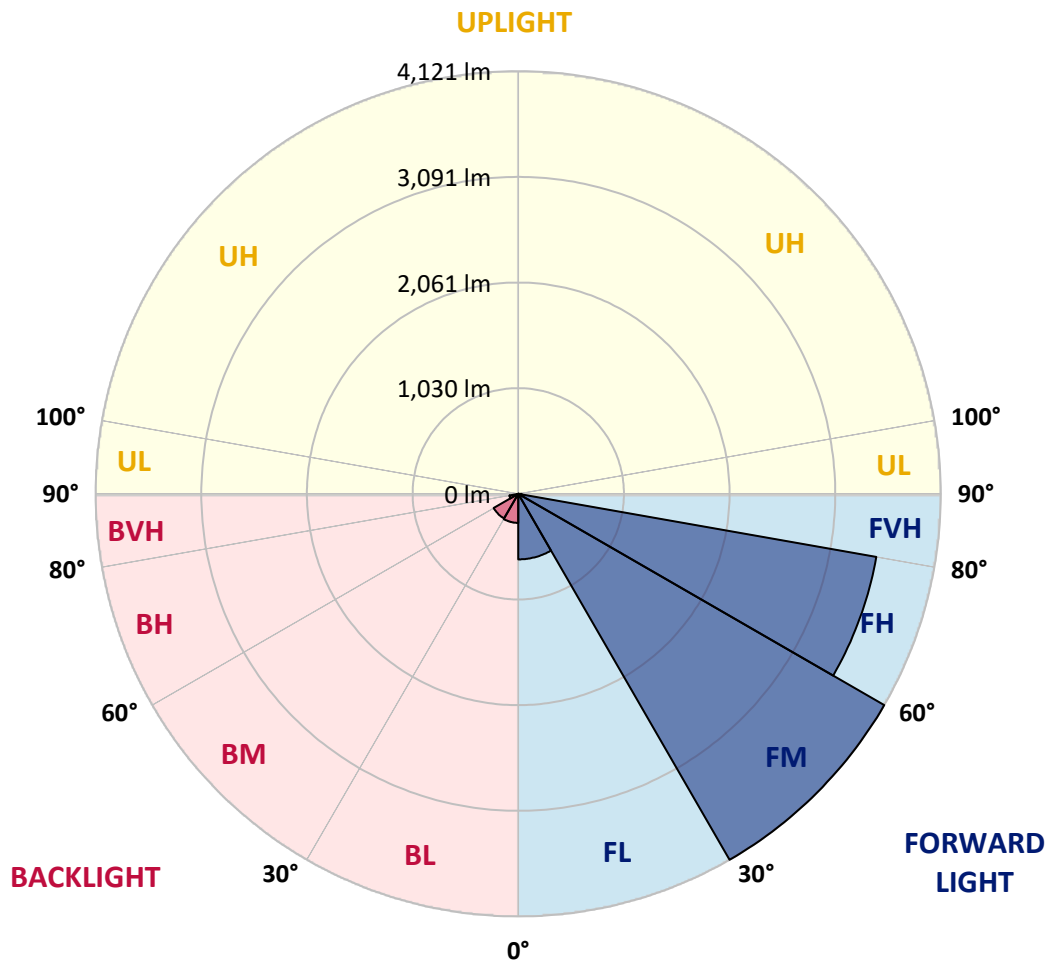
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.4	7.1			
FM (30°-60°)	4121.4	45.9			
FH (60°-80°)	3545.7	39.4			G2/5000
FVH (80°-90°)	32.9	0.4			G1/100
BL (0°-30°)	283.6	3.2	B1/500		
BM (30°-60°)	277.0	3.1	B1/1000		
BH (60°-80°)	88.1	1.0	B0/110		G0/110
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3
2.5°	1571.3	1572.0	1575.8	1585.3	1599.9	1611.9	1622.1	1638.6	1650.0	1651.3	1655.1
5°	1462.8	1455.2	1462.8	1487.6	1509.8	1543.4	1584.6	1625.9	1662.7	1665.3	1683.0
7.5°	1341.0	1347.3	1359.4	1384.7	1426.6	1478.1	1537.7	1611.3	1681.1	1687.5	1722.4
10°	1217.2	1231.1	1250.8	1289.6	1348.0	1414.6	1495.8	1601.2	1710.3	1719.2	1779.5
12.5°	1103.0	1109.3	1133.4	1185.5	1257.8	1351.7	1464.1	1595.5	1742.6	1753.5	1840.4
15°	1015.4	1023.7	1044.6	1091.5	1172.2	1292.7	1438.0	1593.5	1774.4	1789.6	1901.3
17.5°	998.9	1004.0	1012.8	1044.6	1115.0	1245.8	1414.6	1592.9	1804.9	1823.3	1957.8
20°	1066.8	1062.4	1053.4	1050.3	1089.0	1209.6	1397.4	1598.0	1834.1	1855.0	2017.5
22.5°	1236.9	1242.6	1190.5	1129.0	1116.3	1203.9	1394.9	1622.1	1880.4	1905.1	2084.1
25°	1598.0	1554.2	1472.9	1325.8	1214.7	1238.8	1423.5	1679.2	1934.3	1961.6	2144.4
27.5°	1997.1	1983.8	1857.5	1615.1	1408.3	1312.4	1474.2	1723.0	1952.1	1980.1	2178.7
30°	2389.4	2405.2	2260.5	1992.7	1689.4	1448.9	1521.8	1739.5	1967.9	1997.1	2222.4
32.5°	2753.0	2772.0	2645.1	2379.9	2020.7	1684.9	1603.7	1803.6	2034.6	2064.4	2295.4
35°	3039.2	3041.7	2945.9	2734.6	2382.4	1971.8	1780.7	1915.9	2124.7	2159.6	2372.9
37.5°	3301.9	3298.1	3185.8	3003.6	2683.8	2256.7	2003.5	2045.4	2227.6	2263.7	2484.6
40°	3496.8	3499.3	3463.2	3291.8	2964.9	2520.1	2180.0	2166.6	2400.1	2456.6	2647.0
42.5°	3626.9	3650.4	3668.1	3581.1	3318.4	2844.3	2450.9	2426.1	2699.7	2746.6	2876.7
45°	3732.2	3774.1	3863.0	3858.5	3657.9	3242.3	2822.8	2772.0	3124.2	3174.4	3169.3
47.5°	3809.0	3851.5	3998.8	4087.6	3977.2	3628.2	3290.5	3246.7	3631.3	3685.9	3492.3
50°	3848.3	3899.1	4086.9	4258.9	4226.6	4000.0	3823.6	3826.1	4243.7	4296.4	3866.7
52.5°	3756.3	3822.3	4133.9	4443.6	4506.4	4356.0	4323.1	4406.8	4788.8	4833.9	4205.0
55°	3462.5	3545.7	4069.9	4601.0	4830.7	4776.1	4890.4	5017.9	5384.8	5413.9	4552.2
57.5°	3276.5	3364.8	3880.7	4734.9	5220.4	5304.2	5485.0	5578.4	5999.7	6074.0	4950.7
60°	3119.8	3189.0	3725.2	4763.4	5616.4	5950.2	6126.0	6222.5	6758.7	6807.0	5389.2
62.5°	2859.0	2938.3	3462.5	4564.2	5815.7	6467.5	6831.7	6788.6	7345.7	7379.4	5658.2
65°	2439.5	2446.5	2929.4	4063.5	5610.1	6803.1	7327.3	7146.5	7626.3	7649.1	5637.3
67.5°	1820.8	1888.0	2253.5	3194.0	4738.7	6516.3	7487.9	7156.0	7449.2	7385.7	5189.9
70°	1172.8	1224.2	1527.5	2214.9	3416.8	5438.1	6955.4	6665.4	6537.8	6397.0	4248.1
72.5°	541.4	607.4	907.5	1265.5	2026.3	3873.7	5646.2	5415.2	4705.7	4358.0	2700.3
75°	236.1	252.6	448.0	667.6	950.0	2048.6	3722.7	3361.6	2125.4	1941.3	1080.8
77.5°	144.1	154.8	234.8	357.9	373.2	780.6	2005.4	1466.6	656.8	579.4	293.2
80°	97.7	109.8	170.7	187.2	127.6	217.7	752.7	391.6	132.6	126.9	62.8
82.5°	47.6	60.3	126.3	104.7	55.3	69.8	218.9	83.8	38.7	36.2	22.2
85°	7.0	12.0	71.1	68.5	24.7	16.5	38.7	20.9	13.3	12.7	10.2
87.5°	0.0	0.0	24.1	10.8	2.5	2.5	4.5	4.5	5.0	4.5	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°	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3
2.5°	1657.0	1660.1	1648.1	1631.0	1612.5	1594.2	1568.1	1544.7	1530.7	1538.9	1518.7
5°	1686.8	1684.3	1652.6	1600.5	1531.4	1448.2	1365.7	1295.2	1272.4	1238.1	1234.3
7.5°	1728.1	1721.1	1653.8	1534.5	1378.4	1222.3	1070.0	969.1	911.3	862.4	863.7
10°	1785.9	1765.5	1639.2	1418.3	1161.3	925.9	731.8	598.5	540.7	522.3	507.7
12.5°	1845.5	1806.1	1598.6	1261.7	904.3	632.7	444.9	363.6	328.1	316.6	315.4
15°	1898.8	1836.6	1527.5	1073.1	657.5	404.3	303.3	276.7	272.2	272.9	272.2
17.5°	1951.5	1860.7	1429.2	873.2	446.7	290.1	260.8	254.5	256.4	258.9	258.3
20°	1995.3	1865.8	1303.6	666.3	316.0	254.5	245.0	243.7	245.6	247.5	247.5
22.5°	2042.9	1869.6	1154.4	461.4	258.3	236.7	231.6	231.6	234.1	236.7	237.3
25°	2078.4	1848.7	976.1	331.3	227.8	219.6	217.1	217.7	220.2	221.5	220.8
27.5°	2084.1	1789.6	786.9	253.8	206.9	198.6	196.1	198.6	195.4	197.4	196.1
30°	2089.2	1714.7	595.3	213.9	187.9	175.2	171.3	167.5	165.0	161.8	161.2
32.5°	2105.0	1626.5	434.7	192.3	170.1	156.1	147.3	136.4	128.2	125.6	125.1
35°	2112.0	1520.5	319.2	175.2	154.2	139.0	123.1	107.9	95.8	91.4	94.5
37.5°	2138.7	1417.8	247.5	162.5	140.3	121.2	100.9	81.8	70.5	67.9	69.2
40°	2193.2	1306.1	207.6	151.7	128.2	104.7	80.0	61.6	53.9	51.4	50.8
42.5°	2280.8	1195.0	184.7	141.5	116.1	88.2	62.8	48.2	41.9	39.9	39.9
45°	2387.4	1088.3	168.8	130.7	103.4	71.1	49.5	38.7	34.9	33.6	33.6
47.5°	2527.7	995.1	155.5	119.9	89.5	56.5	39.9	33.6	31.1	31.7	32.4
50°	2669.8	925.9	140.9	107.9	73.6	46.3	34.2	29.9	29.2	29.9	29.9
52.5°	2777.1	885.3	121.2	91.4	57.8	38.7	30.4	27.9	27.2	26.0	26.0
55°	2921.8	876.4	96.5	74.3	45.7	32.4	27.2	25.4	23.5	22.2	21.6
57.5°	3107.7	886.6	74.3	57.8	35.6	26.7	24.1	20.9	18.4	15.9	15.9
60°	3223.2	863.7	57.8	44.4	26.0	21.6	18.4	15.2	12.0	10.2	9.5
62.5°	3186.5	767.2	45.7	33.0	18.4	15.9	12.0	10.2	7.0	5.0	4.5
65°	2996.7	619.4	36.8	22.9	13.3	9.5	6.3	6.3	3.2	0.7	0.0
67.5°	2622.9	458.8	29.2	15.2	7.7	4.5	3.2	1.9	0.0	0.0	0.0
70°	2134.9	331.3	22.9	9.5	4.5	3.2	1.3	0.7	0.0	0.0	0.0
72.5°	1355.5	189.7	17.7	5.7	3.2	1.3	0.0	0.0	0.0	0.0	0.0
75°	524.2	74.3	12.0	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	148.5	34.9	7.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.7	15.2	3.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.4	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.8	2.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	0.7	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)