

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: P646806

Luminaire Tested: **GALN-SA2C-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646806
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-SA2C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA 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: 8667 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

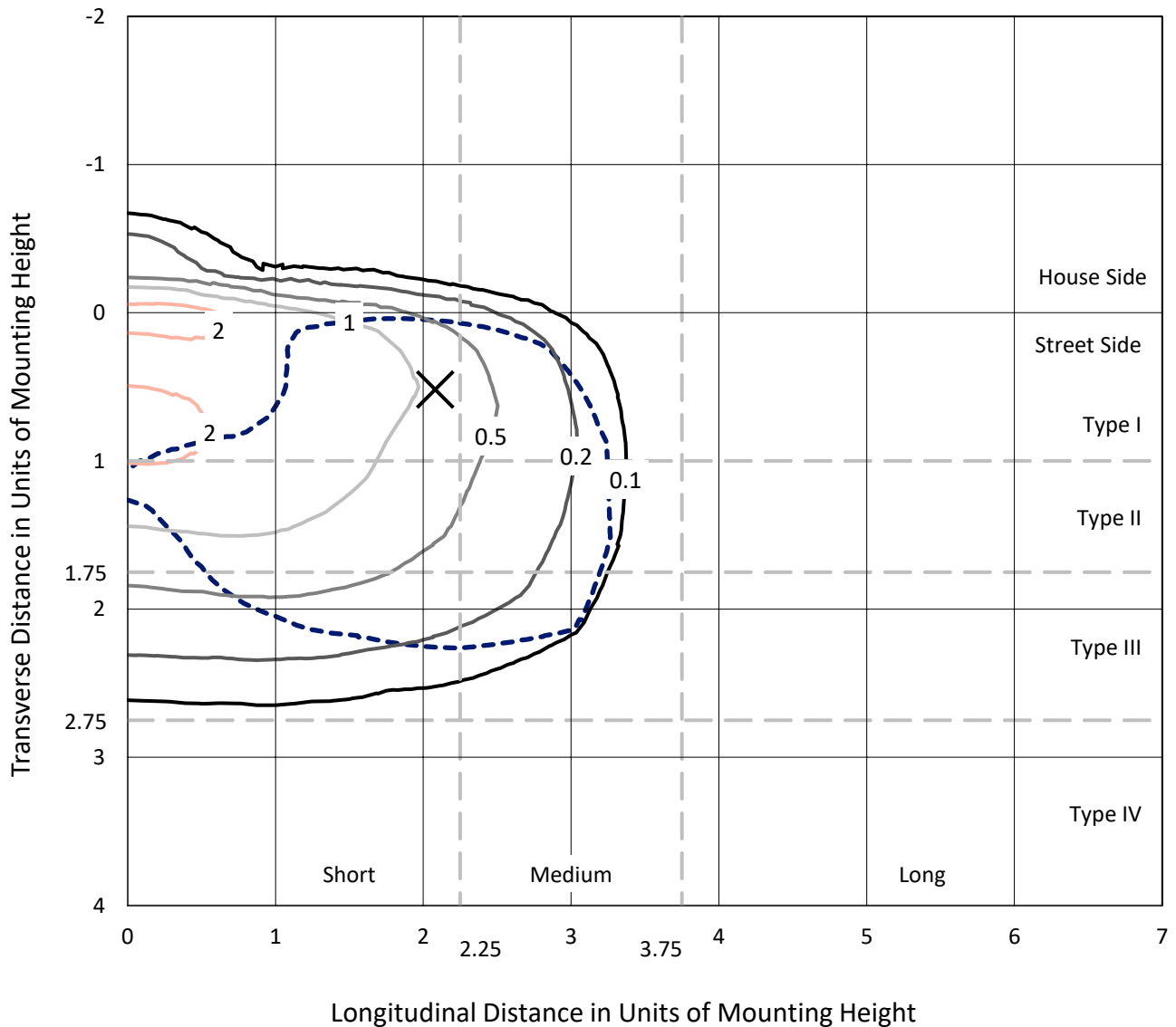
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

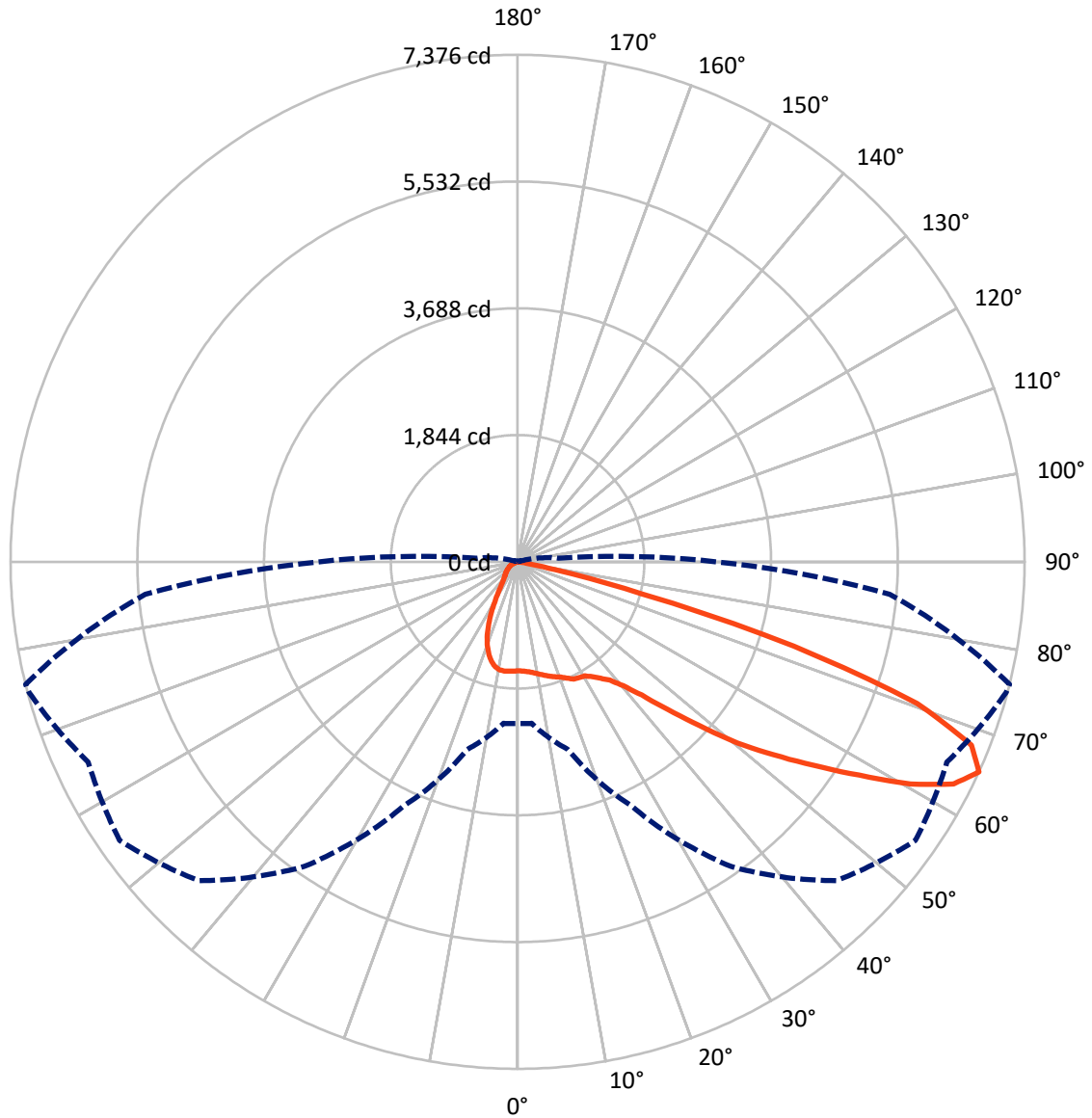
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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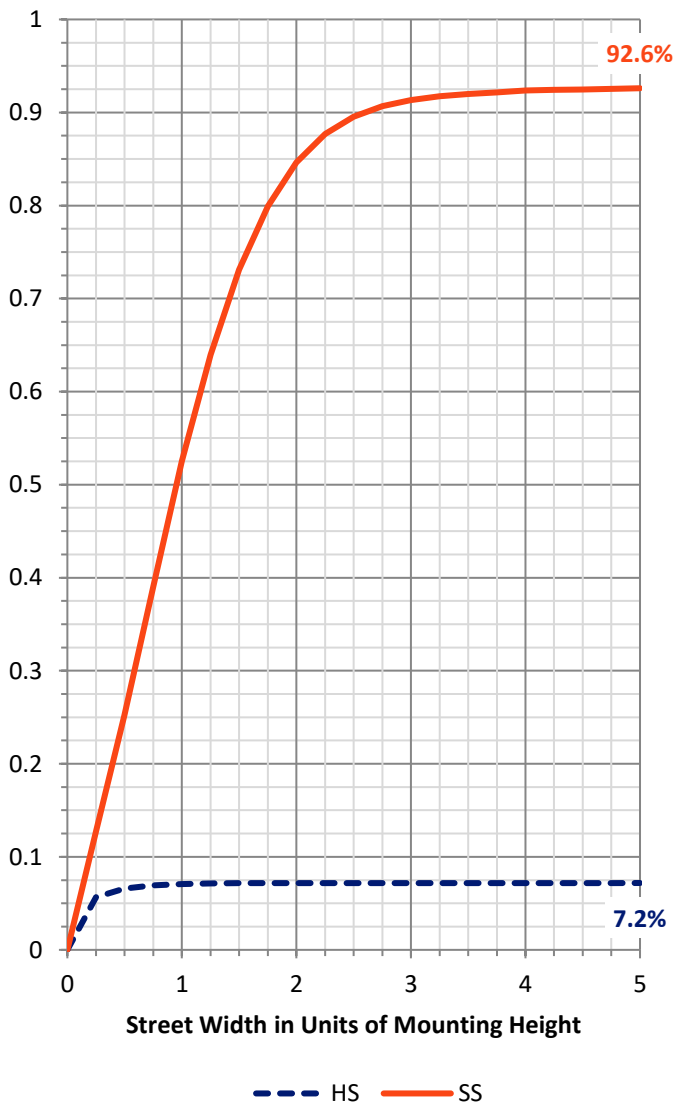
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	625.9	0.0	625.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8041.1	0.0	8041.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	8667.0	0.0	8667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.5
10°-20°	290.8	3.4
20°-30°	468.6	5.4
30°-40°	814.8	9.4
40°-50°	1346.4	15.5
50°-60°	2079.9	24.0
60°-70°	2539.8	29.3
70°-80°	963.9	11.1
80°-90°	32.2	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°	8667.0	100.0
0°-180°	8667.0	100.0

Coefficient of Utilization



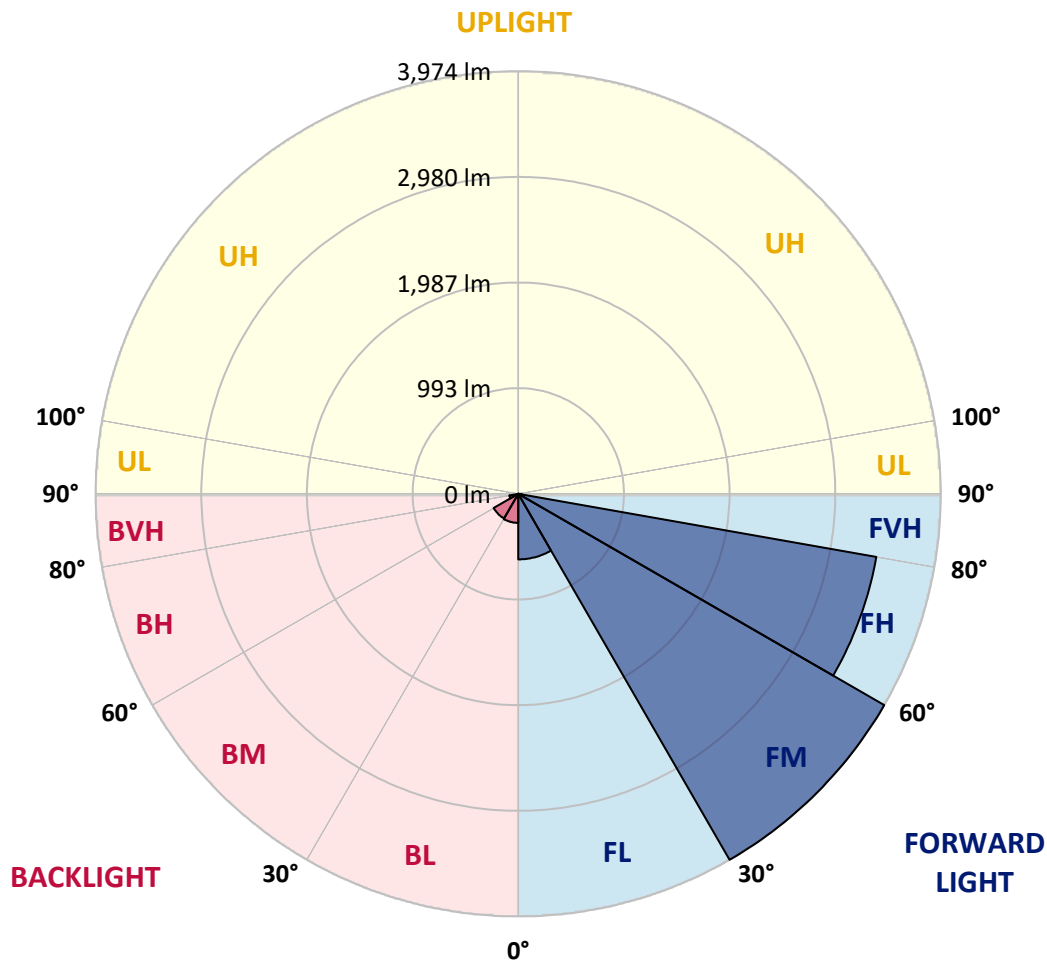
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	616.6	7.1			
FM (30°-60°)	3974.0	45.9			
FH (60°-80°)	3418.8	39.4			G2/5000
FVH (80°-90°)	31.7	0.4			G1/100
BL (0°-30°)	273.5	3.2	B1/500		
BM (30°-60°)	267.1	3.1	B1/1000		
BH (60°-80°)	84.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	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°	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5
2.5°	1515.1	1515.7	1519.4	1528.6	1542.7	1554.3	1564.0	1579.9	1591.0	1592.2	1595.9
5°	1410.5	1403.1	1410.5	1434.3	1455.8	1488.2	1527.9	1567.7	1603.2	1605.7	1622.8
7.5°	1293.0	1299.1	1310.7	1335.2	1375.6	1425.1	1482.7	1553.6	1621.0	1627.1	1660.7
10°	1173.6	1187.1	1206.1	1243.4	1299.7	1364.0	1442.3	1543.8	1649.1	1657.7	1715.8
12.5°	1063.5	1069.7	1092.9	1143.0	1212.8	1303.4	1411.7	1538.4	1680.3	1690.7	1774.6
15°	979.1	987.0	1007.3	1052.5	1130.2	1246.5	1386.6	1536.6	1710.9	1725.6	1833.3
17.5°	963.2	968.0	976.6	1007.3	1075.1	1201.2	1364.0	1535.9	1740.3	1758.1	1887.7
20°	1028.6	1024.3	1015.8	1012.7	1050.1	1166.3	1347.5	1540.8	1768.4	1788.6	1945.3
22.5°	1192.6	1198.1	1148.0	1088.6	1076.4	1160.8	1345.0	1564.0	1813.1	1837.0	2009.6
25°	1540.8	1498.6	1420.3	1278.3	1171.2	1194.5	1372.5	1619.2	1865.1	1891.4	2067.7
27.5°	1925.7	1912.9	1791.1	1557.3	1357.9	1265.4	1421.5	1661.4	1882.3	1909.2	2100.7
30°	2303.9	2319.2	2179.6	1921.4	1629.0	1397.0	1467.3	1677.3	1897.5	1925.7	2142.9
32.5°	2654.5	2672.8	2550.5	2294.7	1948.3	1624.6	1546.3	1739.0	1961.8	1990.5	2213.3
35°	2930.5	2932.9	2840.5	2636.8	2297.2	1901.2	1717.0	1847.4	2048.7	2082.4	2287.9
37.5°	3183.8	3180.2	3071.8	2896.2	2587.8	2176.0	1931.8	1972.2	2147.8	2182.7	2395.7
40°	3371.7	3374.1	3339.3	3174.0	2858.9	2429.9	2102.0	2089.1	2314.2	2368.7	2552.3
42.5°	3497.1	3519.7	3536.9	3453.0	3199.7	2742.6	2363.3	2339.4	2603.1	2648.3	2773.9
45°	3598.7	3639.1	3724.7	3720.4	3527.1	3126.3	2721.8	2672.8	3012.4	3060.8	3055.9
47.5°	3672.7	3713.7	3855.6	3941.4	3834.9	3498.4	3172.8	3130.6	3501.4	3554.0	3367.4
50°	3710.6	3759.7	3940.8	4106.6	4075.4	3856.9	3686.8	3689.3	4091.9	4142.7	3728.4
52.5°	3621.9	3685.6	3986.0	4284.7	4345.3	4200.2	4168.4	4249.2	4617.5	4661.0	4054.5
55°	3338.6	3418.8	3924.2	4436.4	4657.9	4605.3	4715.5	4838.4	5192.1	5220.3	4389.3
57.5°	3159.3	3244.4	3741.9	4565.5	5033.6	5114.4	5288.8	5378.7	5785.0	5856.7	4773.6
60°	3008.2	3074.9	3591.9	4593.1	5415.5	5737.4	5906.8	5999.8	6516.9	6563.4	5196.4
62.5°	2756.7	2833.2	3338.6	4400.9	5607.6	6236.0	6587.3	6545.6	7082.9	7115.4	5455.9
65°	2352.2	2358.9	2824.6	3918.1	5409.4	6559.7	7065.2	6890.8	7353.4	7375.5	5435.7
67.5°	1755.6	1820.5	2172.9	3079.8	4569.2	6283.2	7220.0	6900.0	7182.7	7121.5	5004.2
70°	1130.8	1180.4	1472.9	2135.6	3294.6	5243.5	6706.6	6426.9	6303.9	6168.1	4096.2
72.5°	521.9	585.6	875.0	1220.1	1953.8	3735.1	5444.2	5221.5	4537.3	4202.0	2603.7
75°	227.6	243.5	432.0	643.7	916.0	1975.3	3589.5	3241.3	2049.3	1871.8	1042.1
77.5°	138.9	149.3	226.4	345.1	359.8	752.6	1933.6	1414.2	633.4	558.7	282.7
80°	94.3	105.9	164.6	180.5	123.0	209.9	725.8	377.6	127.9	122.4	60.6
82.5°	45.9	58.1	121.8	100.9	53.2	67.3	211.1	80.8	37.3	34.8	21.5
85°	6.7	11.6	68.5	66.1	23.9	15.9	37.3	20.2	12.8	12.2	9.8
87.5°	0.0	0.0	23.3	10.4	2.4	2.4	4.3	4.3	4.9	4.3	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°	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5	1585.5
2.5°	1597.7	1600.8	1589.2	1572.7	1554.9	1537.1	1512.1	1489.4	1476.0	1483.9	1464.3
5°	1626.4	1624.0	1593.4	1543.2	1476.6	1396.4	1316.8	1248.9	1226.9	1193.8	1190.2
7.5°	1666.2	1659.5	1594.7	1479.6	1329.1	1178.6	1031.7	934.4	878.7	831.6	832.8
10°	1721.9	1702.3	1580.6	1367.7	1119.8	892.8	705.6	577.1	521.3	503.6	489.5
12.5°	1779.4	1741.5	1541.4	1216.5	871.9	610.1	428.9	350.6	316.3	305.4	304.1
15°	1830.9	1770.9	1472.9	1034.7	633.9	389.8	292.5	266.8	262.5	263.1	262.5
17.5°	1881.6	1794.2	1378.0	842.0	430.8	279.6	251.5	245.4	247.2	249.7	249.1
20°	1923.8	1799.0	1256.9	642.5	304.7	245.4	236.2	235.0	236.8	238.7	238.7
22.5°	1969.8	1802.7	1113.1	444.9	249.1	228.2	223.3	223.3	225.8	228.2	228.9
25°	2004.0	1782.5	941.2	319.4	219.7	211.7	209.3	209.9	212.3	213.5	213.0
27.5°	2009.6	1725.6	758.8	244.8	199.5	191.5	189.1	191.5	188.5	190.3	189.1
30°	2014.4	1653.4	573.9	206.2	181.1	168.9	165.2	161.5	159.1	156.1	155.4
32.5°	2029.7	1568.3	419.1	185.4	164.0	150.5	142.0	131.5	123.6	121.1	120.6
35°	2036.4	1466.2	307.8	168.9	148.7	134.0	118.7	104.1	92.4	88.1	91.1
37.5°	2062.2	1367.0	238.7	156.7	135.2	116.9	97.3	78.9	67.9	65.5	66.7
40°	2114.8	1259.3	200.1	146.3	123.6	100.9	77.1	59.4	52.0	49.6	48.9
42.5°	2199.2	1152.3	178.1	136.5	112.0	85.0	60.6	46.5	40.4	38.5	38.5
45°	2302.0	1049.5	162.8	126.1	99.8	68.5	47.8	37.3	33.7	32.4	32.4
47.5°	2437.2	959.5	149.9	115.6	86.3	54.5	38.5	32.4	30.0	30.6	31.2
50°	2574.3	892.8	135.9	104.1	71.0	44.6	33.0	28.7	28.1	28.7	28.7
52.5°	2677.8	853.6	116.9	88.1	55.7	37.3	29.4	26.9	26.3	25.1	25.1
55°	2817.2	845.1	93.0	71.6	44.1	31.2	26.3	24.5	22.6	21.5	20.8
57.5°	2996.5	854.9	71.6	55.7	34.3	25.7	23.3	20.2	17.8	15.3	15.3
60°	3108.0	832.8	55.7	42.8	25.1	20.8	17.8	14.7	11.6	9.8	9.2
62.5°	3072.4	739.8	44.1	31.8	17.8	15.3	11.6	9.8	6.7	4.9	4.3
65°	2889.5	597.2	35.5	22.0	12.8	9.2	6.1	6.1	3.1	0.6	0.0
67.5°	2529.1	442.4	28.1	14.7	7.4	4.3	3.1	1.8	0.0	0.0	0.0
70°	2058.5	319.4	22.0	9.2	4.3	3.1	1.3	0.6	0.0	0.0	0.0
72.5°	1307.1	183.0	17.1	5.5	3.1	1.3	0.0	0.0	0.0	0.0	0.0
75°	505.4	71.6	11.6	3.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	143.2	33.7	6.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.3	14.7	3.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.8	6.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	0.6	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)