

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: P647359

Luminaire Tested: **GALN-SA3D-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13020.5 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

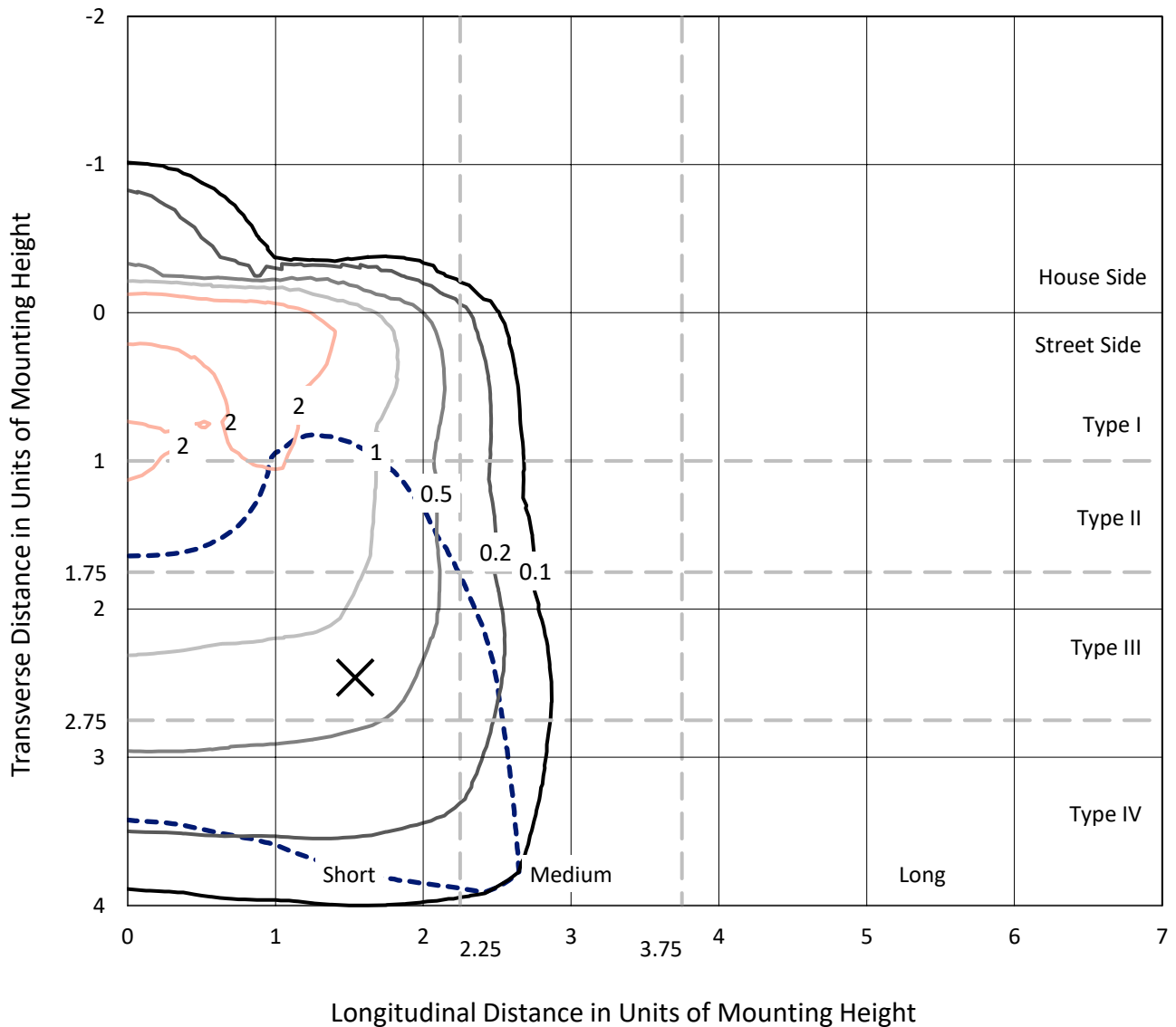
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

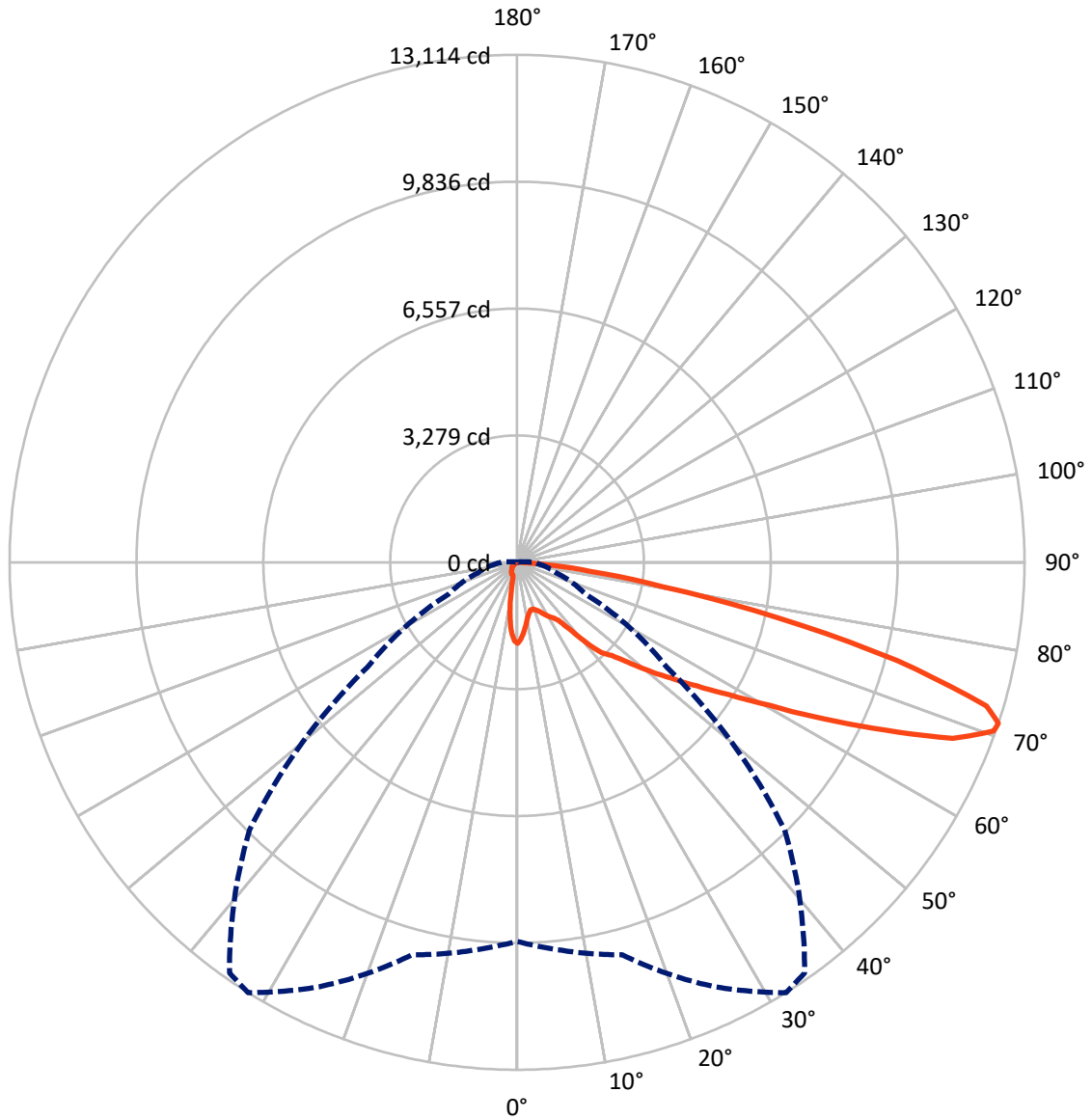
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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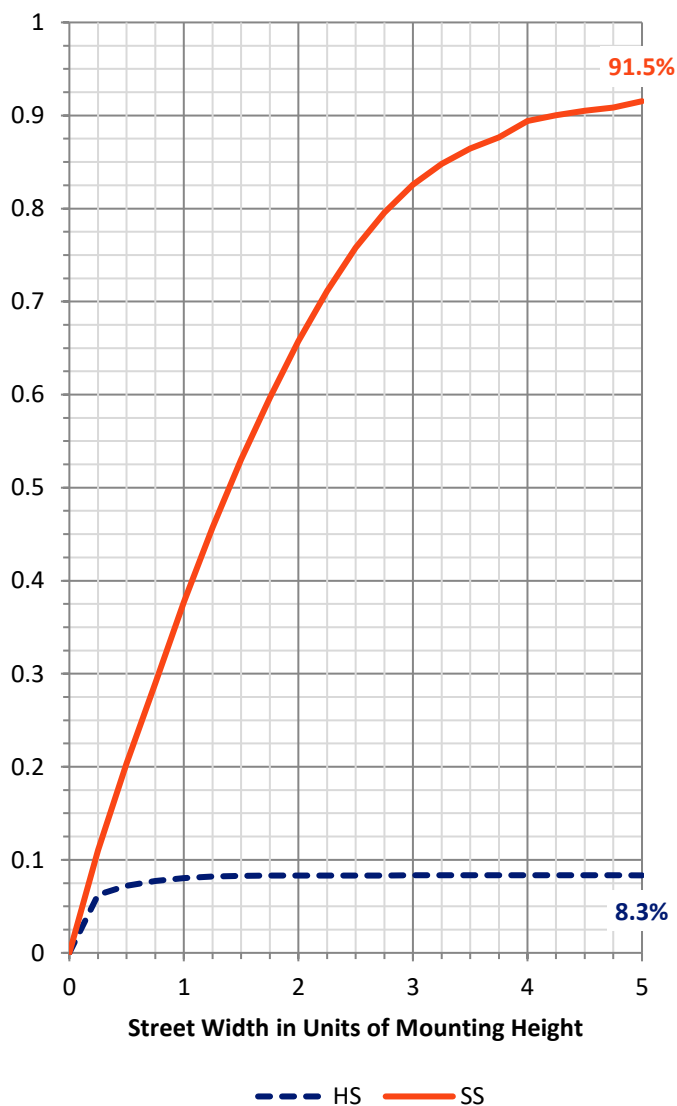
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1090.6	0.0	1090.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11929.9	0.0	11929.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	13020.5	0.0	13020.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	1.3
10°-20°	369.5	2.8
20°-30°	574.9	4.4
30°-40°	957.7	7.4
40°-50°	1781.5	13.7
50°-60°	2860.3	22.0
60°-70°	3847.2	29.5
70°-80°	2282.6	17.5
80°-90°	176.4	1.4
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°	13020.5	100.0
0°-180°	13020.5	100.0

Coefficient of Utilization



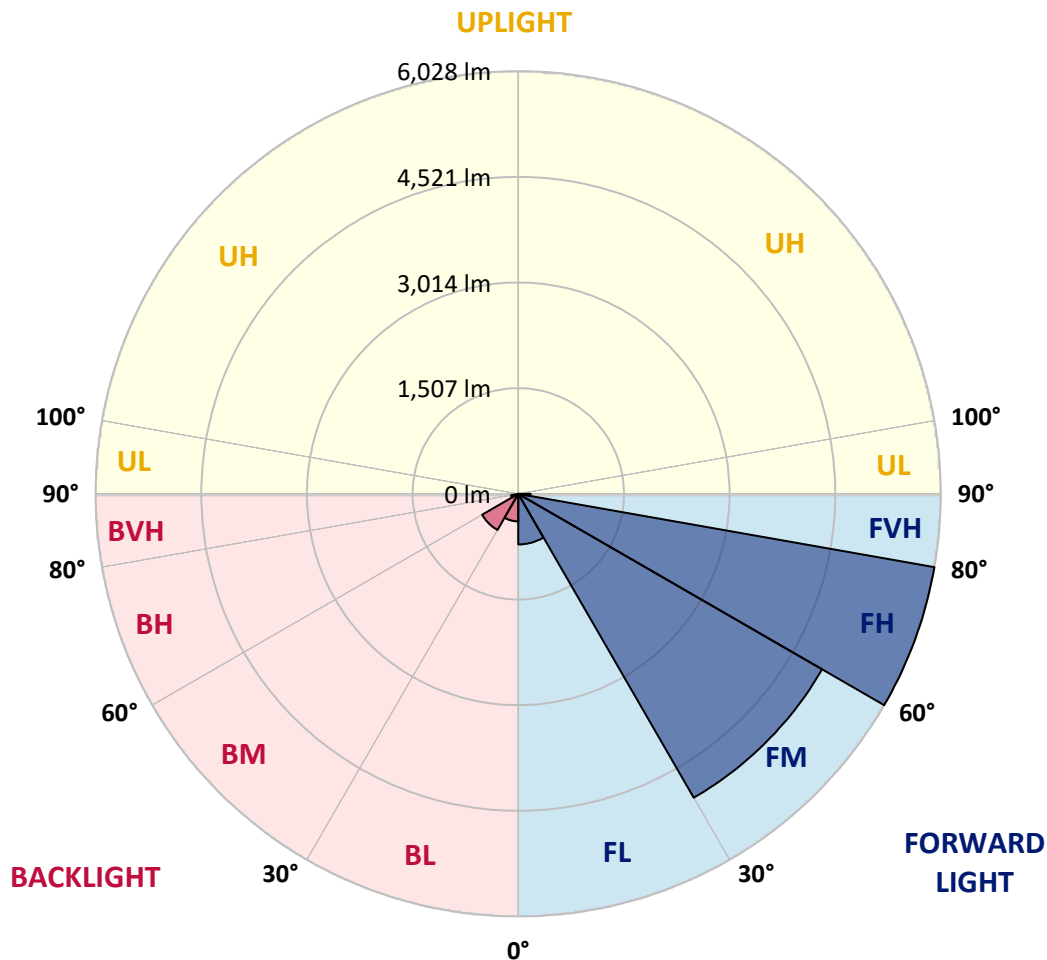
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.7	5.5			
FM (30°-60°)	5004.6	38.4			
FH (60°-80°)	6027.9	46.3			G3/7500
FVH (80°-90°)	175.8	1.3			G2/225
BL (0°-30°)	393.0	3.0	B1/500		
BM (30°-60°)	595.0	4.6	B1/1000		
BH (60°-80°)	102.0	0.8	B0/110		G0/110
BVH (80°-90°)	0.7	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9
2.5°	1942.0	1962.0	1959.0	1966.0	1982.9	1990.0	2008.9	2029.9	2058.9	2078.9	2091.9
5°	1739.1	1754.1	1756.1	1791.0	1808.0	1827.1	1883.0	1944.0	2011.9	2065.9	2101.9
7.5°	1522.2	1530.2	1546.2	1592.2	1635.1	1654.2	1739.1	1845.1	1951.9	2052.9	2117.9
10°	1343.3	1352.3	1381.3	1430.2	1470.2	1495.2	1613.1	1746.1	1896.0	2045.9	2140.9
12.5°	1241.4	1246.4	1257.3	1301.3	1352.3	1379.3	1506.2	1658.2	1851.0	2049.0	2179.9
15°	1234.3	1232.4	1219.4	1237.4	1283.3	1311.3	1435.2	1598.2	1811.1	2058.9	2225.8
17.5°	1271.4	1266.3	1235.3	1235.3	1273.3	1296.3	1405.3	1566.2	1791.0	2081.9	2290.8
20°	1328.3	1320.3	1269.3	1265.3	1302.3	1326.3	1423.3	1568.2	1795.0	2124.9	2377.7
22.5°	1400.2	1391.2	1314.3	1316.3	1356.3	1380.3	1475.3	1604.1	1820.1	2177.8	2470.7
25°	1494.2	1484.3	1393.3	1389.3	1431.2	1452.2	1552.2	1668.1	1855.0	2243.8	2592.7
27.5°	1619.2	1598.2	1489.2	1483.2	1528.2	1555.2	1645.2	1754.1	1917.0	2334.7	2756.6
30°	1722.1	1699.1	1595.1	1579.2	1627.2	1648.1	1741.1	1870.0	2038.9	2493.7	2983.5
32.5°	1857.0	1823.1	1701.1	1659.1	1710.1	1737.1	1880.0	2085.9	2219.8	2661.6	3253.3
35°	2160.8	2139.9	1990.9	1844.0	1841.1	1875.1	2084.9	2303.8	2405.8	2923.5	3621.1
37.5°	2595.6	2580.6	2422.8	2225.8	2168.8	2152.9	2333.8	2543.7	2702.6	3283.3	4048.9
40°	3100.4	3065.4	2920.4	2753.6	2679.6	2632.6	2627.6	2900.5	3090.3	3772.0	4494.7
42.5°	3462.2	3398.2	3222.3	3210.3	3194.3	3145.3	3003.4	3422.2	3591.2	4297.7	4971.4
45°	3841.9	3745.0	3483.2	3438.2	3432.2	3429.2	3571.1	4039.9	4136.8	4867.4	5461.1
47.5°	4136.8	4059.9	3845.0	3825.0	3850.0	3918.0	4321.8	4695.6	4675.5	5375.2	5872.0
50°	4529.7	4471.6	4232.7	4270.8	4399.7	4510.6	5168.3	5410.1	5118.3	5774.9	6170.7
52.5°	4993.3	4886.5	4664.6	4767.5	4965.4	5150.3	6066.8	6035.8	5429.2	6075.8	6393.7
55°	5395.2	5319.2	5243.3	5350.2	5646.1	5876.9	6878.4	6504.6	5655.1	6317.7	6491.6
57.5°	6074.8	6056.8	5978.8	6087.8	6446.6	6686.5	7605.0	6868.4	5800.0	6443.6	6376.7
60°	7080.3	7051.3	6906.4	7045.3	7513.0	7889.8	8274.7	7195.2	5833.0	6394.6	6045.9
62.5°	8289.6	8190.7	8066.8	8271.7	8913.4	9079.2	8905.3	7389.1	5710.0	6004.8	5248.2
65°	9419.0	9317.1	9320.1	9751.9	10450.5	10563.5	9640.9	7360.1	5350.2	5028.3	3871.0
67.5°	10283.6	10266.6	10388.5	11231.1	12144.6	12066.7	10298.6	6926.3	4283.7	3259.3	2056.9
70°	10327.6	10360.6	10710.3	12132.7	13060.1	12936.2	10242.7	5630.1	2670.6	1499.2	810.6
71°	9795.9	10017.8	10501.5	12104.6	13114.2	12953.2	9770.9	4715.5	1959.0	1045.5	584.7
72.5°	8347.6	8464.5	9510.0	11392.0	12687.3	12343.5	8574.5	3305.3	1254.4	639.6	335.8
75°	4597.6	4885.5	6368.7	8937.3	10147.7	9845.8	5588.0	1570.1	625.7	349.8	138.9
77.5°	2188.9	2132.9	3107.3	5315.2	6880.4	6864.4	2815.5	697.7	364.8	236.9	70.0
80°	625.7	703.6	1189.4	2526.7	3820.0	3862.0	1081.4	336.8	252.8	184.9	36.0
82.5°	188.9	192.9	436.8	1117.4	1900.0	1791.0	405.8	171.9	181.9	146.9	21.0
85°	33.0	41.0	129.0	393.8	724.6	549.7	101.9	82.0	120.0	96.9	12.0
87.5°	2.0	3.0	43.0	44.9	64.0	37.0	18.0	12.0	26.0	26.0	7.0
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°	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9	2093.9
2.5°	2100.9	2106.9	2102.9	2093.9	2078.9	2060.9	2036.9	2016.9	1999.9	1990.9	2002.0
5°	2113.9	2121.9	2101.9	2056.9	1989.0	1915.0	1831.0	1766.1	1715.1	1699.1	1693.1
7.5°	2133.9	2138.8	2084.9	1985.0	1841.1	1666.1	1513.2	1384.3	1284.4	1254.4	1210.4
10°	2159.8	2156.9	2054.9	1869.0	1616.2	1353.3	1116.4	940.5	807.6	759.6	755.6
12.5°	2199.8	2183.9	2016.9	1711.1	1348.3	1004.5	711.6	556.7	472.8	444.7	438.8
15°	2249.8	2211.8	1957.0	1526.2	1032.5	648.6	438.8	391.8	380.8	378.8	376.8
17.5°	2308.8	2248.9	1878.0	1299.3	725.6	420.8	366.8	365.8	366.8	364.8	363.8
20°	2388.8	2287.8	1784.1	1030.4	479.7	354.8	349.8	349.8	350.8	349.8	349.8
22.5°	2473.7	2333.8	1668.1	786.6	361.8	336.8	335.8	337.8	339.8	338.8	338.8
25°	2578.7	2393.7	1515.2	538.7	323.8	321.8	322.8	326.8	330.8	331.8	330.8
27.5°	2730.6	2467.7	1351.3	370.8	296.8	298.9	308.8	318.8	324.9	325.8	325.8
30°	2901.5	2549.7	1137.4	300.8	274.8	274.8	286.8	305.8	318.8	320.8	321.8
32.5°	3121.4	2644.6	900.5	270.8	253.8	251.9	262.9	285.9	309.8	316.8	316.8
35°	3393.2	2756.6	669.6	251.9	238.9	233.9	239.9	258.9	289.9	309.8	311.9
37.5°	3712.0	2862.5	489.8	234.9	224.9	217.9	221.9	236.9	261.8	291.8	299.8
40°	4006.9	2956.5	365.8	220.9	210.9	205.9	208.9	215.9	236.9	264.9	269.8
42.5°	4328.7	3029.4	290.9	205.9	196.9	194.9	194.9	197.9	211.9	227.9	228.9
45°	4649.5	3055.4	243.9	187.9	181.9	183.9	182.9	180.9	186.9	184.9	184.9
47.5°	4878.4	3024.4	201.9	170.9	170.9	173.9	168.9	161.9	158.9	146.9	147.9
50°	5035.4	2911.5	165.9	150.9	158.9	162.9	152.9	142.0	130.9	117.9	114.9
52.5°	5100.3	2710.6	135.9	125.0	140.9	146.0	133.9	121.0	104.0	92.9	90.0
55°	5058.3	2462.7	112.9	101.9	118.9	125.0	112.9	98.0	78.9	66.9	65.0
57.5°	4873.5	2166.9	95.9	81.0	95.0	99.0	91.0	74.9	56.0	44.0	44.0
60°	4553.6	1861.0	78.0	64.0	70.9	77.0	69.0	53.9	38.0	27.0	25.0
62.5°	3905.0	1511.2	63.0	50.0	50.0	55.0	48.0	39.0	24.0	14.0	13.0
65°	2819.5	1036.5	50.0	37.0	36.0	36.0	30.0	26.0	14.0	6.0	4.0
67.5°	1532.2	584.7	40.0	28.0	25.0	24.0	19.0	15.0	6.0	1.0	0.0
70°	602.7	224.9	31.0	19.0	16.0	15.0	10.0	7.0	4.0	0.0	0.0
71°	408.8	155.0	27.0	16.0	13.0	11.0	8.0	6.0	3.0	0.0	0.0
72.5°	233.9	95.9	21.0	12.0	10.0	8.0	6.0	4.0	3.0	0.0	0.0
75°	101.9	48.9	13.0	9.0	7.0	5.0	4.0	3.0	1.0	0.0	0.0
77.5°	52.0	27.0	9.0	7.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0
80°	29.0	14.0	6.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
82.5°	16.0	8.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.0	0.0	0.0	0.0	0.0	1.0	1.0	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)