

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: P452537

Luminaire Tested: **GALN-SA3C-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452537
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-SA3C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 12697 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

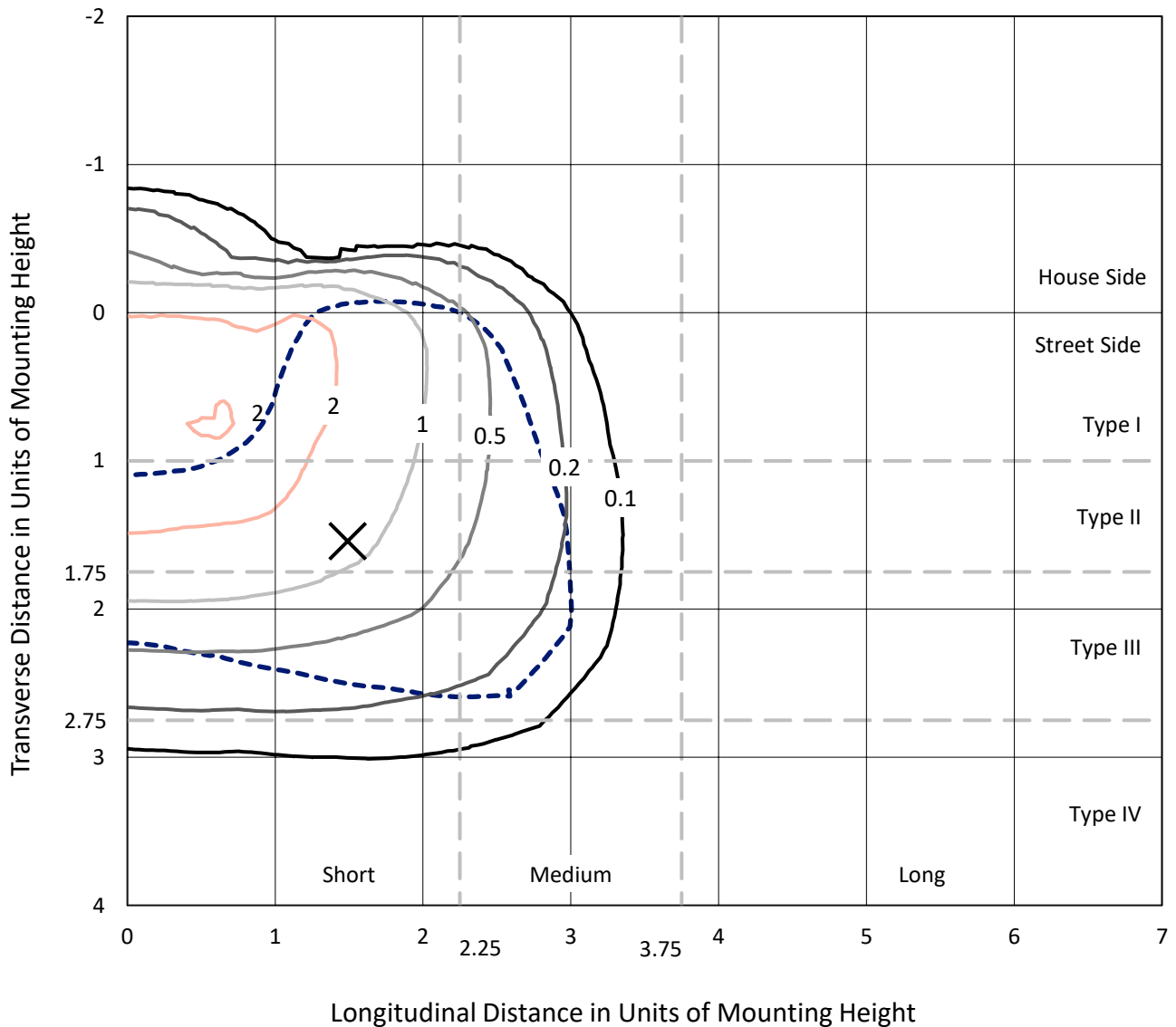
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452537
 CATALOG NUMBER: GALN-SA3C-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

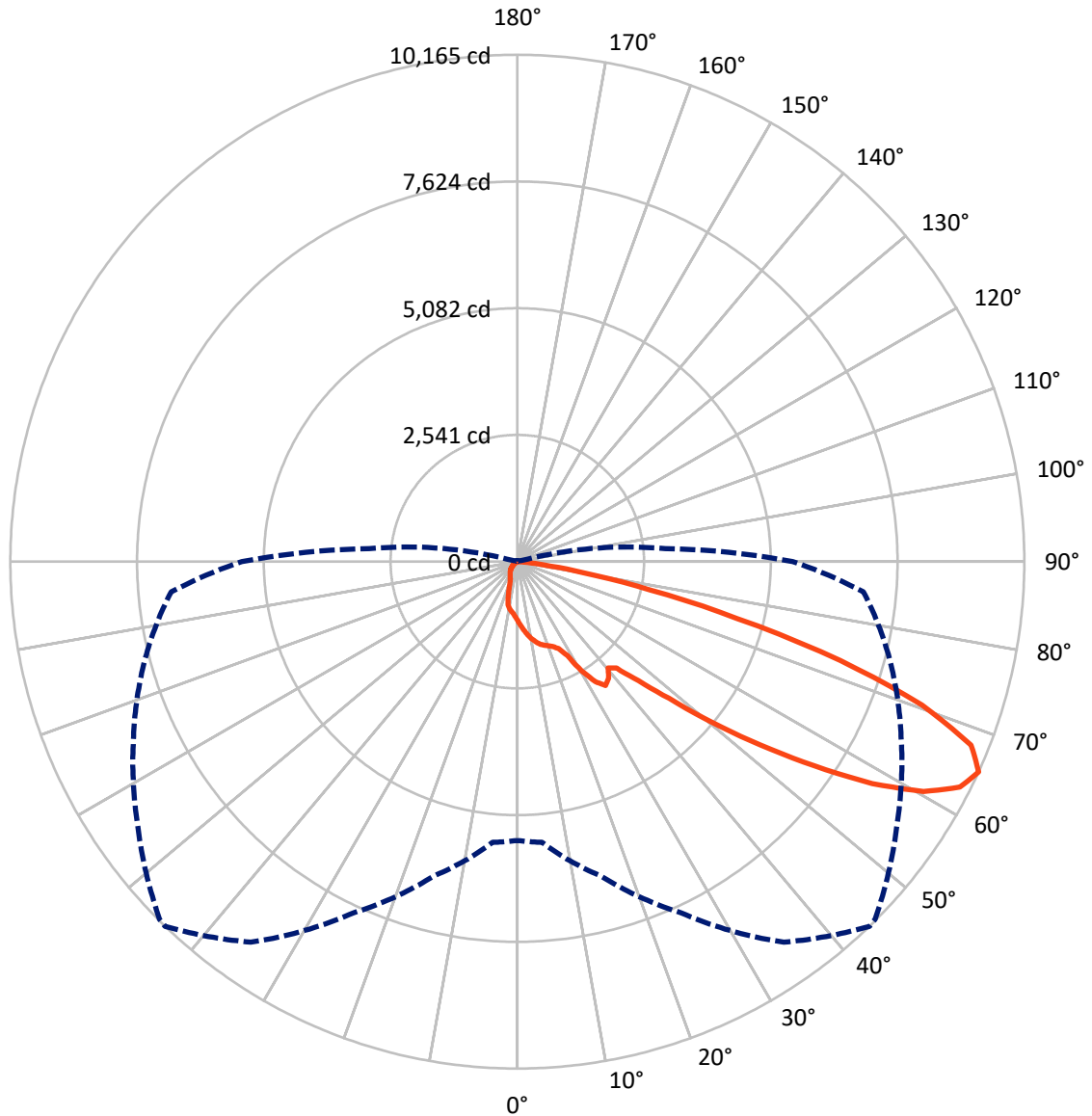
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P452537
CATALOG NUMBER: GALN-SA3C-727-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452537

CATALOG NUMBER: GALN-SA3C-727-U-T4W-HSS

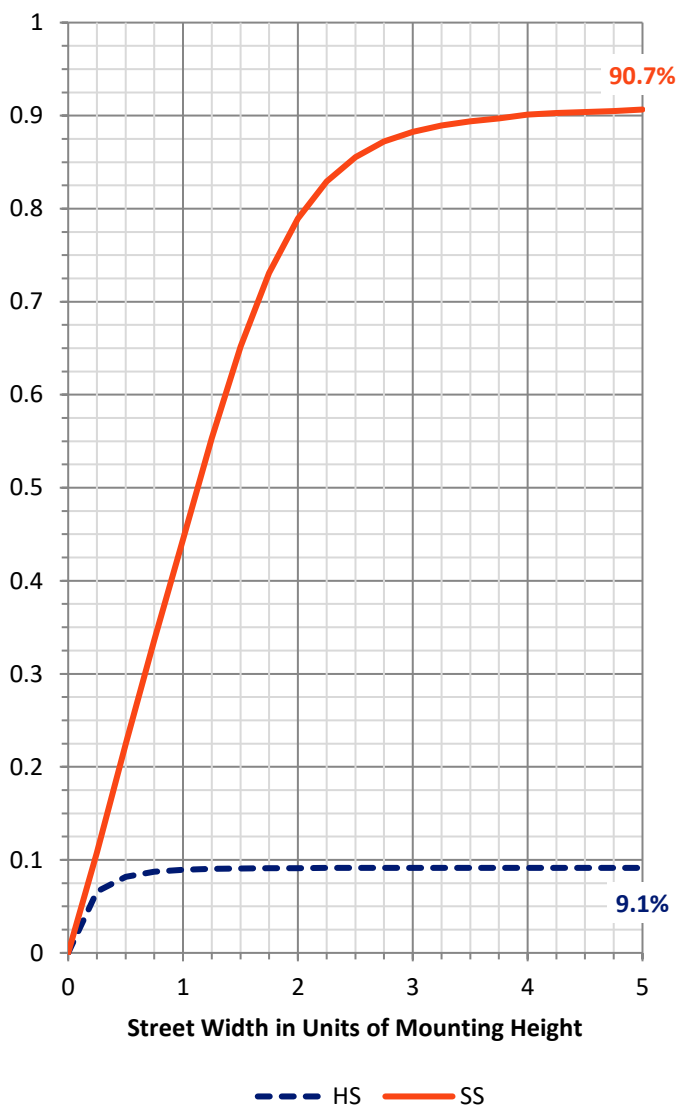
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1169.8	0.0	1169.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	11527.2	0.0	11527.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	12697.0	0.0	12697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	0.9
10°-20°	353.7	2.8
20°-30°	599.8	4.7
30°-40°	997.3	7.9
40°-50°	1741.3	13.7
50°-60°	3401.9	26.8
60°-70°	3946.9	31.1
70°-80°	1437.3	11.3
80°-90°	101.3	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°	12697.0	100.0
0°-180°	12697.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452537

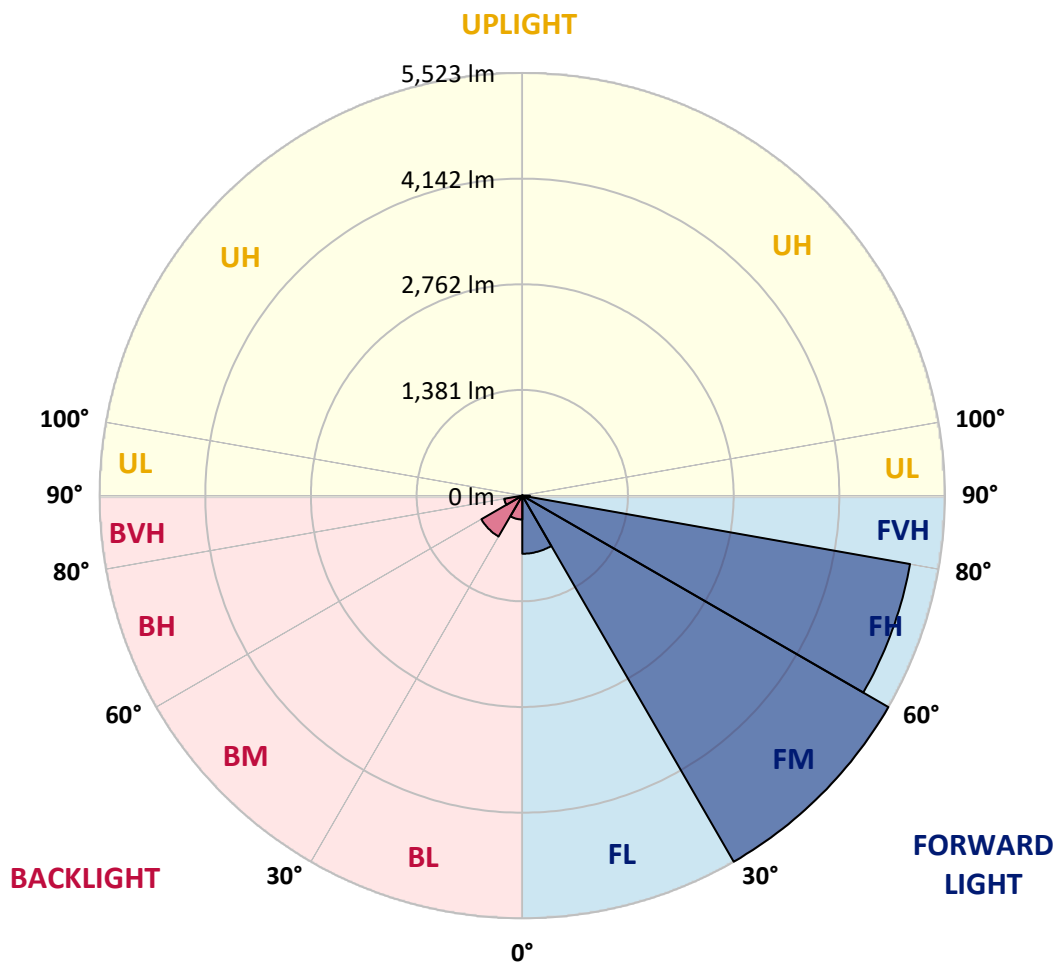
CATALOG NUMBER: GALN-SA3C-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.4	6.0			
FM (30°-60°)	5523.2	43.5			
FH (60°-80°)	5144.7	40.5			G3/7500
FVH (80°-90°)	99.9	0.8			G1/100
BL (0°-30°)	311.7	2.5	B1/500		
BM (30°-60°)	617.2	4.9	B1/1000		
BH (60°-80°)	239.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.4	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-G3

Type III Short





REPORT NUMBER: P452537

CATALOG NUMBER: GALN-SA3C-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7
2.5°	1330.2	1324.3	1321.4	1305.9	1294.3	1279.7	1279.7	1261.3	1239.9	1216.6	1195.3
5°	1478.6	1468.9	1456.3	1442.7	1415.5	1376.7	1376.7	1337.9	1293.3	1253.5	1209.8
7.5°	1621.2	1612.5	1591.1	1564.9	1520.3	1479.6	1476.7	1420.4	1367.0	1306.9	1244.8
10°	1746.4	1739.6	1721.1	1670.7	1624.1	1570.8	1569.8	1506.7	1444.6	1370.9	1294.3
12.5°	1833.7	1834.7	1810.4	1761.9	1701.7	1651.3	1647.4	1585.3	1520.3	1440.8	1346.6
15°	1895.8	1895.8	1870.6	1816.2	1761.9	1717.3	1713.4	1659.1	1592.1	1505.8	1403.9
17.5°	1913.2	1919.1	1891.9	1843.4	1799.7	1760.9	1760.0	1714.4	1661.0	1577.6	1462.1
20°	1906.5	1912.3	1890.9	1853.1	1823.0	1800.7	1797.8	1779.4	1729.9	1651.3	1524.2
22.5°	1891.9	1897.7	1882.2	1859.9	1845.3	1852.1	1847.3	1862.8	1836.6	1741.5	1597.9
25°	1894.8	1900.6	1889.0	1876.4	1889.0	1930.7	1943.3	2010.3	1987.0	1856.0	1677.5
27.5°	1986.0	1997.7	1981.2	1987.0	2031.6	2128.6	2152.9	2268.3	2165.5	2001.5	1801.7
30°	2188.8	2181.0	2150.0	2178.1	2333.3	2539.0	2532.2	2513.8	2352.8	2169.4	1949.1
32.5°	2373.1	2366.3	2364.4	2485.7	2767.0	2867.0	2862.1	2683.6	2520.6	2361.5	2094.7
35°	2447.8	2421.6	2415.8	2709.8	3180.3	3048.4	3018.3	2753.4	2724.3	2571.0	2243.1
37.5°	2672.9	2654.5	2564.3	2746.7	3015.4	2971.7	2948.5	2873.8	2941.7	2756.4	2411.0
40°	3136.7	3085.3	3003.8	2825.2	2781.6	2800.0	2823.3	3028.0	3198.8	3009.6	2635.1
42.5°	3713.0	3701.3	3550.0	3217.2	2890.2	2915.5	2945.5	3350.1	3568.4	3390.9	3000.9
45°	4404.7	4421.2	4202.9	3810.0	3381.2	3402.5	3446.2	3825.5	4069.0	3983.7	3576.2
47.5°	5033.4	5020.8	4947.1	4538.6	4142.8	4095.2	4166.1	4435.8	4761.8	4775.4	4290.3
50°	5666.0	5733.0	5623.3	5463.2	5169.3	5069.3	5043.1	5175.1	5671.8	5606.8	5147.9
52.5°	6575.1	6610.0	6404.3	6363.6	6430.5	6106.5	6080.3	6112.3	6556.7	6333.5	5790.2
55°	7146.5	7126.2	7049.5	7367.8	7632.6	7228.0	7195.1	7066.0	7291.1	6846.8	6408.2
57.5°	7327.0	7356.1	7534.6	8110.0	8736.7	8393.3	8333.1	7966.4	7820.8	7325.1	6976.8
60°	7246.5	7299.8	7685.0	8540.7	9410.0	9358.6	9307.2	8691.1	8201.2	7724.8	7375.5
62.5°	6673.1	6747.8	7363.9	8464.1	9638.0	9959.2	9895.1	9143.2	8454.4	7918.8	7445.4
65°	5592.3	5647.6	6532.4	7768.4	9314.0	10164.9	10141.6	9284.9	8494.2	7741.3	6967.1
67.5°	3986.6	4174.8	4994.6	6547.0	8355.4	9813.6	9853.4	9115.1	8120.6	6973.8	5769.8
70°	2506.0	2634.1	3222.1	4687.1	6698.3	8609.6	8740.6	8338.0	7047.6	5436.1	3862.4
72.5°	1195.3	1290.4	1709.5	2966.9	4727.8	6774.0	6877.8	6844.8	5449.7	3424.8	1992.8
75°	532.6	568.5	815.9	1514.5	3052.3	4553.2	4821.9	4866.6	3405.4	1675.5	775.2
77.5°	271.7	272.6	382.3	733.5	1524.2	2716.6	2769.9	2926.1	1846.3	738.3	269.7
80°	144.6	154.3	202.8	346.4	790.7	1337.9	1331.1	1463.1	818.9	361.9	90.2
82.5°	65.0	71.8	114.5	181.4	386.1	507.4	547.2	598.6	351.2	230.9	39.8
85°	19.4	23.3	56.3	91.2	139.7	146.5	164.0	211.5	198.9	164.0	20.4
87.5°	2.9	2.9	23.3	25.2	20.4	26.2	27.2	30.1	64.0	60.2	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452537
 CATALOG NUMBER: GALN-SA3C-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7	1181.7
2.5°	1183.7	1176.9	1152.6	1132.2	1114.8	1104.1	1091.5	1083.7	1079.8	1076.9	1077.9
5°	1188.5	1172.0	1130.3	1097.3	1072.1	1044.9	1026.5	1015.8	1011.0	1003.2	1003.2
7.5°	1215.7	1189.5	1131.3	1080.8	1037.2	1000.3	965.4	952.7	944.0	942.1	940.1
10°	1254.5	1221.5	1141.9	1072.1	1010.0	959.5	910.1	866.4	832.4	812.1	809.2
12.5°	1303.0	1255.4	1158.4	1066.3	986.7	897.4	766.5	678.2	619.0	600.6	603.5
15°	1347.6	1296.2	1174.9	1061.4	944.0	744.1	595.7	494.8	464.7	461.8	462.8
17.5°	1401.0	1339.9	1194.3	1054.6	826.6	568.5	442.4	415.2	421.1	430.8	429.8
20°	1456.3	1386.4	1217.6	1013.9	659.7	427.9	391.0	393.9	402.6	411.4	413.3
22.5°	1515.5	1439.8	1244.8	915.9	503.5	372.6	370.6	374.5	383.2	392.9	394.9
25°	1597.0	1506.7	1265.1	787.8	381.3	344.4	348.3	355.1	362.9	373.5	375.5
27.5°	1701.7	1597.0	1275.8	620.9	329.9	319.2	320.2	329.9	339.6	349.3	349.3
30°	1837.6	1704.7	1254.5	469.6	304.6	294.9	291.1	296.9	309.5	319.2	320.2
32.5°	1958.8	1806.5	1198.2	359.0	286.2	272.6	262.9	263.9	268.7	274.6	275.5
35°	2080.1	1905.5	1102.2	301.7	266.8	251.3	236.7	229.0	225.1	222.2	225.1
37.5°	2235.4	2028.7	974.1	274.6	250.3	230.9	210.5	194.0	180.5	171.7	173.7
40°	2435.2	2199.5	822.7	257.1	234.8	211.5	184.3	163.0	139.7	131.9	128.1
42.5°	2765.1	2458.5	663.6	242.6	219.3	191.1	157.2	128.1	106.7	99.0	100.9
45°	3286.1	2785.5	511.3	227.0	203.7	168.8	131.9	100.9	83.4	79.6	81.5
47.5°	3976.9	3208.5	393.9	209.6	184.3	144.6	103.8	79.6	68.9	67.9	66.9
50°	4626.9	3602.4	328.9	190.2	161.1	120.3	85.4	66.9	60.2	59.2	59.2
52.5°	5214.9	3884.7	267.8	167.8	135.8	99.0	71.8	59.2	53.4	50.5	50.5
55°	5737.8	4069.0	217.3	140.7	106.7	78.6	62.1	53.4	46.6	42.7	41.7
57.5°	6132.7	4091.4	163.0	112.5	79.6	61.1	53.4	46.6	38.8	34.0	32.0
60°	6301.5	3898.3	120.3	85.4	59.2	48.5	42.7	37.8	29.1	24.3	23.3
62.5°	6131.7	3522.8	89.3	65.0	45.6	35.9	30.1	28.1	20.4	14.6	13.6
65°	5523.4	2980.5	70.8	49.5	34.0	26.2	19.4	18.4	12.6	6.8	5.8
67.5°	4425.1	2334.3	56.3	36.9	24.3	17.5	12.6	11.6	6.8	1.9	1.9
70°	2877.6	1492.2	45.6	27.2	15.5	11.6	7.8	5.8	3.9	1.0	0.0
72.5°	1423.3	697.6	36.9	21.3	10.7	5.8	2.9	1.9	2.9	0.0	0.0
75°	552.0	248.4	27.2	14.6	5.8	2.9	1.9	0.0	1.0	0.0	0.0
77.5°	183.4	82.5	16.5	7.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	67.9	32.0	8.7	4.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.2	12.6	5.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.6	7.8	3.9	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	5.8	3.9	2.9	1.9	1.0	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)