

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: P453262

Luminaire Tested: **GALN-SA4B-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453262
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-SA4B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 14830 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

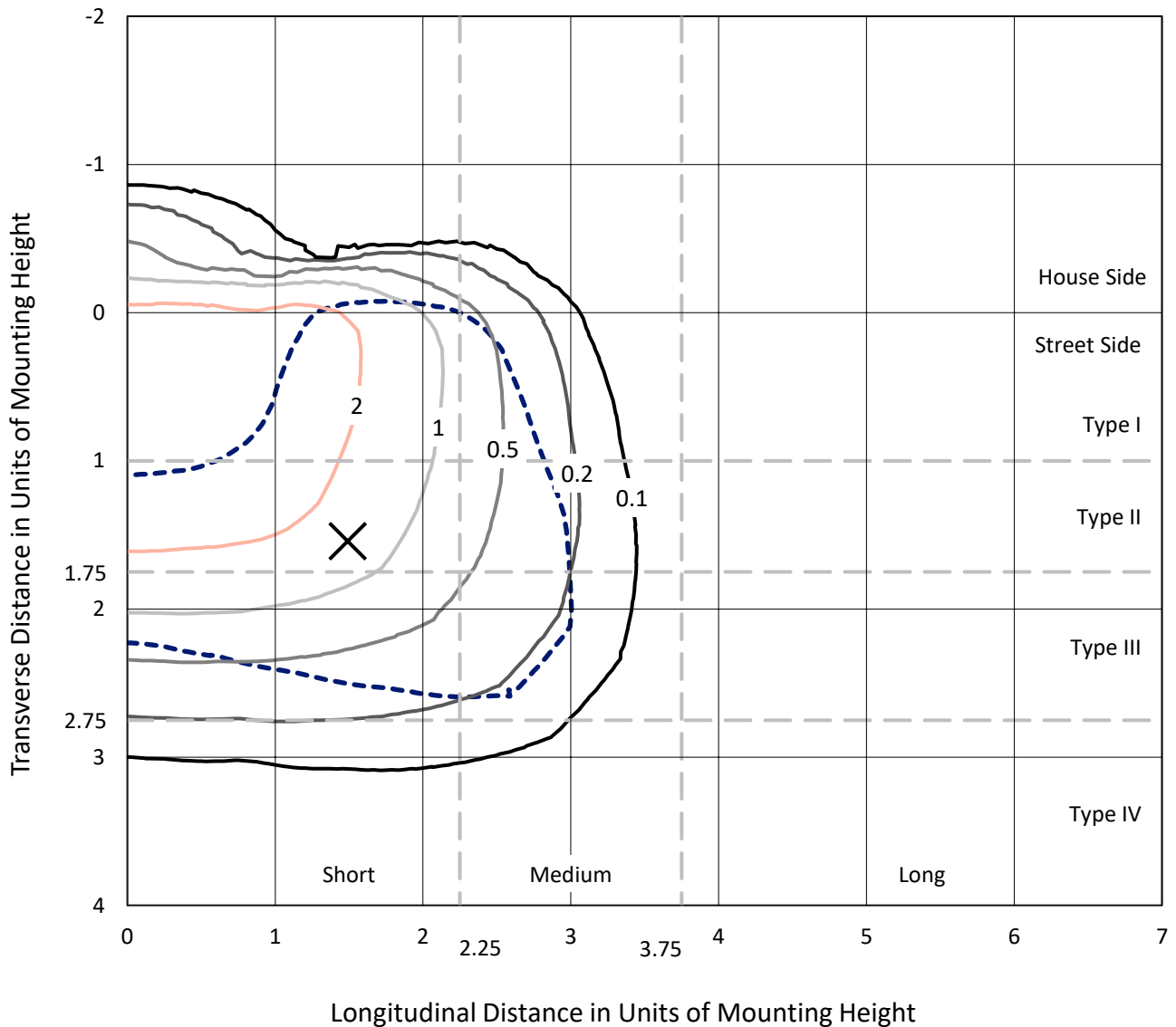
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453262
 CATALOG NUMBER: GALN-SA4B-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

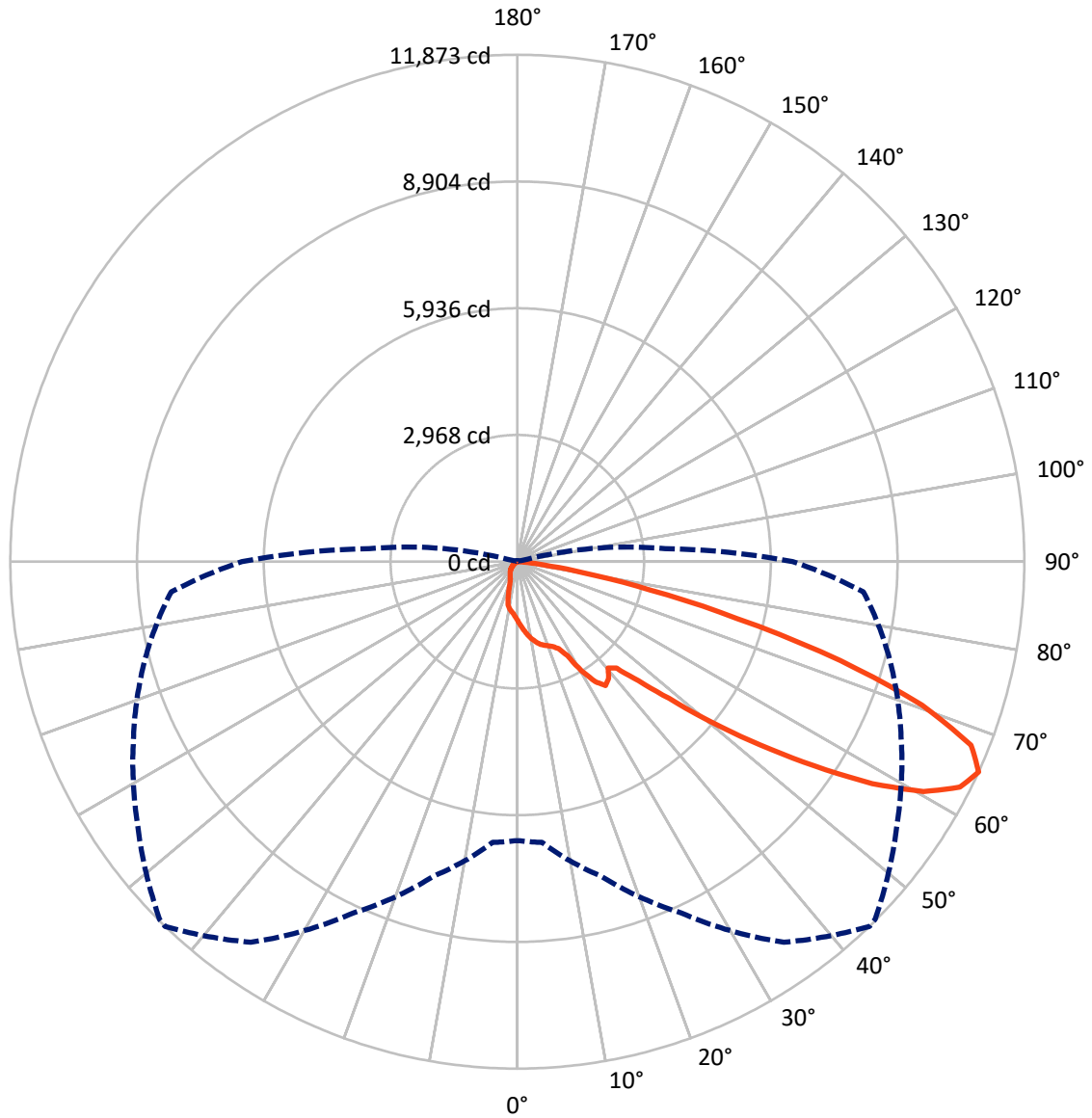
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

REPORT NUMBER: P453262
CATALOG NUMBER: GALN-SA4B-730-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453262

CATALOG NUMBER: GALN-SA4B-730-U-T4W-HSS

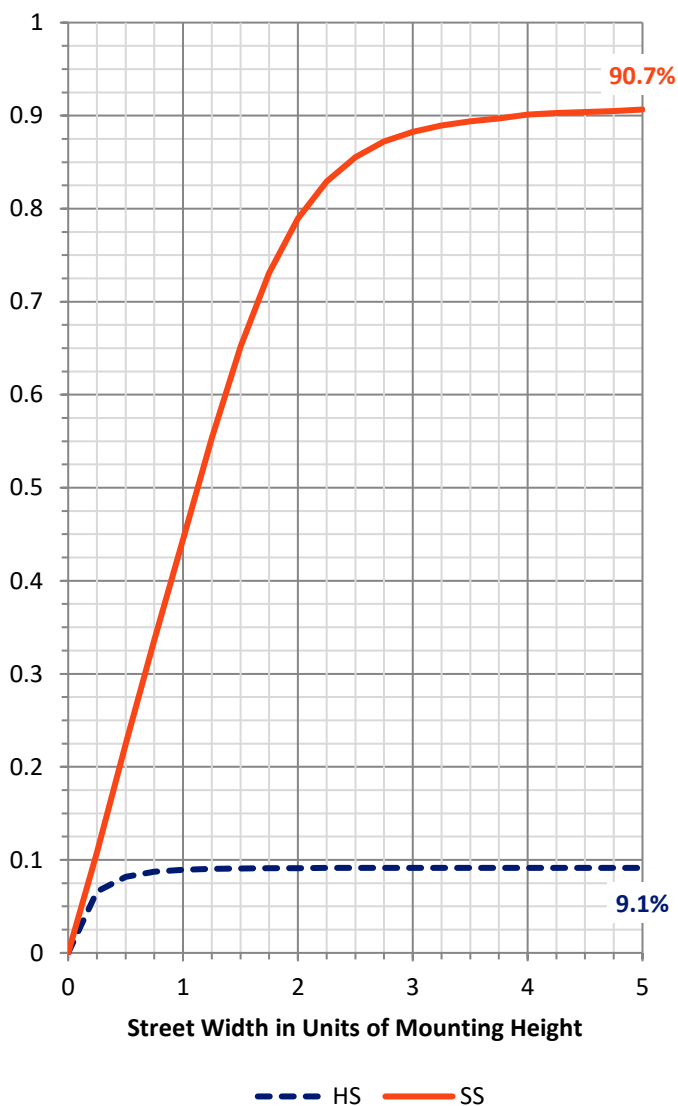
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1366.4	0.0	1366.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	13463.6	0.0	13463.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	14830.0	0.0	14830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	0.9
10°-20°	413.2	2.8
20°-30°	700.6	4.7
30°-40°	1164.8	7.9
40°-50°	2033.8	13.7
50°-60°	3973.3	26.8
60°-70°	4610.0	31.1
70°-80°	1678.7	11.3
80°-90°	118.3	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°	14830.0	100.0
0°-180°	14830.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453262

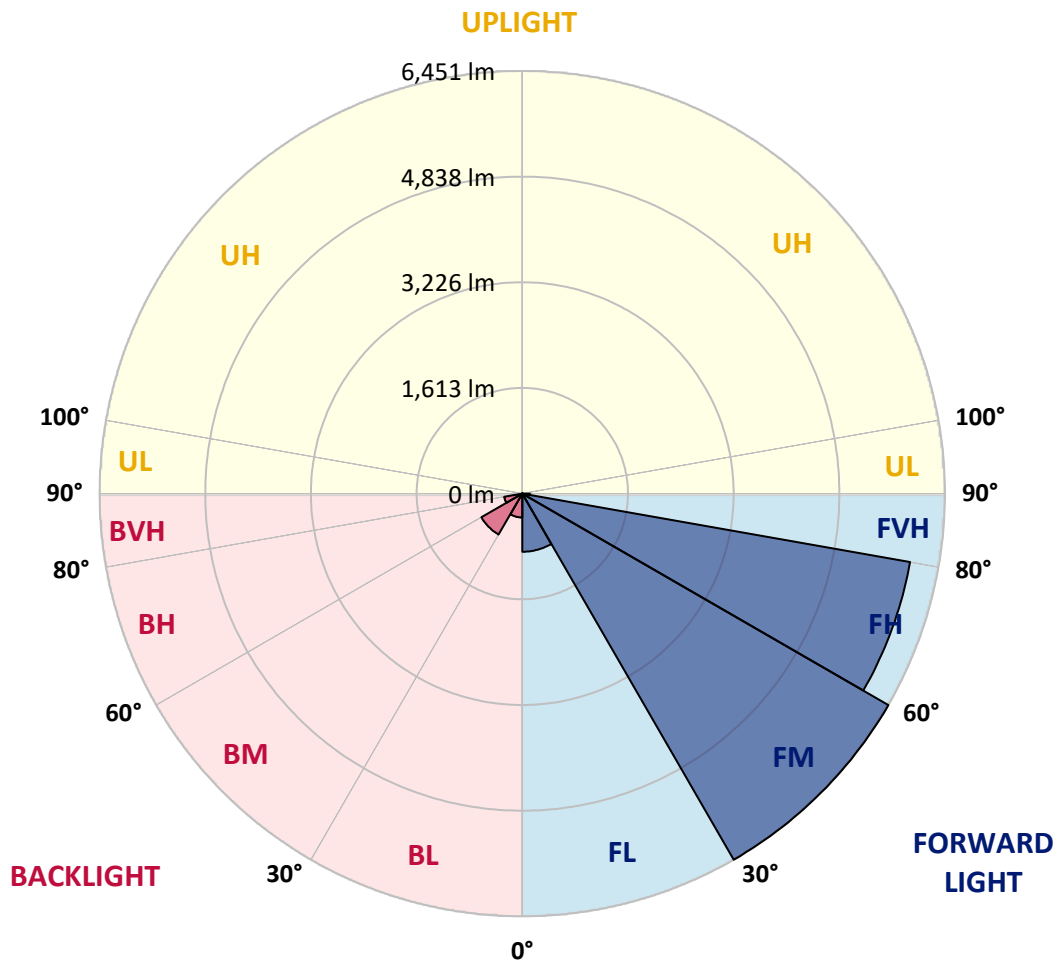
CATALOG NUMBER: GALN-SA4B-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.0	6.0			
FM (30°-60°)	6451.1	43.5			
FH (60°-80°)	6008.9	40.5			G3/7500
FVH (80°-90°)	116.7	0.8			G2/225
BL (0°-30°)	364.0	2.5	B1/500		
BM (30°-60°)	720.9	4.9	B1/1000		
BH (60°-80°)	279.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	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: P453262

CATALOG NUMBER: GALN-SA4B-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2
2.5°	1553.6	1546.8	1543.4	1525.3	1511.7	1494.7	1494.7	1473.2	1448.2	1421.0	1396.1
5°	1727.0	1715.7	1700.9	1685.1	1653.3	1608.0	1608.0	1562.7	1510.5	1464.1	1413.1
7.5°	1893.6	1883.4	1858.4	1827.8	1775.7	1728.1	1724.7	1659.0	1596.7	1526.4	1453.9
10°	2039.7	2031.8	2010.3	1951.4	1897.0	1834.6	1833.5	1759.9	1687.3	1601.2	1511.7
12.5°	2141.7	2142.9	2114.5	2057.9	1987.6	1928.7	1924.2	1851.6	1775.7	1682.8	1572.9
15°	2214.3	2214.3	2184.8	2121.3	2057.9	2005.8	2001.2	1937.8	1859.6	1758.7	1639.7
17.5°	2234.7	2241.5	2209.7	2153.1	2102.1	2056.7	2055.6	2002.4	1940.0	1842.6	1707.7
20°	2226.7	2233.5	2208.6	2164.4	2129.3	2103.2	2099.8	2078.3	2020.5	1928.7	1780.2
22.5°	2209.7	2216.5	2198.4	2172.3	2155.3	2163.3	2157.6	2175.7	2145.1	2034.1	1866.4
25°	2213.1	2219.9	2206.3	2191.6	2206.3	2255.1	2269.8	2348.0	2320.8	2167.8	1959.3
27.5°	2319.6	2333.2	2314.0	2320.8	2372.9	2486.2	2514.6	2649.4	2529.3	2337.8	2104.3
30°	2556.5	2547.4	2511.2	2544.0	2725.3	2965.6	2957.6	2936.1	2748.0	2533.8	2276.6
32.5°	2771.8	2763.9	2761.6	2903.2	3231.9	3348.6	3342.9	3134.4	2944.0	2758.2	2446.6
35°	2859.0	2828.5	2821.7	3165.0	3714.6	3560.5	3525.4	3216.0	3182.0	3003.0	2619.9
37.5°	3122.0	3100.4	2995.0	3208.1	3522.0	3471.0	3443.8	3356.5	3435.8	3219.4	2816.0
40°	3663.6	3603.6	3508.4	3299.9	3248.9	3270.4	3297.6	3536.7	3736.1	3515.2	3077.8
42.5°	4336.7	4323.1	4146.4	3757.7	3375.8	3405.2	3440.4	3912.9	4167.9	3960.5	3505.0
45°	5144.7	5164.0	4909.0	4450.1	3949.2	3974.1	4025.1	4468.2	4752.6	4652.9	4177.0
47.5°	5879.0	5864.3	5778.2	5301.1	4838.7	4783.2	4865.9	5181.0	5561.7	5577.6	5011.0
50°	6617.9	6696.0	6568.0	6381.0	6037.7	5920.9	5890.3	6044.5	6624.7	6548.7	6012.7
52.5°	7679.7	7720.5	7480.2	7432.6	7510.8	7132.3	7101.7	7139.1	7658.1	7397.5	6762.9
55°	8347.1	8323.3	8233.8	8605.5	8914.8	8442.3	8403.8	8253.1	8516.0	7997.0	7484.7
57.5°	8557.9	8591.9	8800.4	9472.4	10204.4	9803.3	9733.0	9304.7	9134.7	8555.6	8148.8
60°	8463.8	8526.2	8976.0	9975.5	10990.9	10930.8	10870.7	10151.2	9578.9	9022.5	8614.5
62.5°	7794.1	7881.4	8600.9	9886.0	11257.2	11632.2	11557.4	10679.2	9874.7	9249.1	8696.1
65°	6531.7	6596.3	7629.8	9073.5	10878.7	11872.5	11845.3	10844.7	9921.1	9041.8	8137.5
67.5°	4656.3	4876.1	5833.7	7646.8	9759.1	11462.3	11508.7	10646.4	9484.8	8145.4	6739.1
70°	2927.0	3076.6	3763.3	5474.5	7823.6	10056.0	10208.9	9738.7	8231.5	6349.3	4511.2
72.5°	1396.1	1507.1	1996.7	3465.3	5522.1	7912.0	8033.2	7994.7	6365.2	4000.2	2327.6
75°	622.1	664.1	953.0	1768.9	3565.0	5318.1	5632.0	5684.1	3977.5	1957.0	905.4
77.5°	317.3	318.4	446.5	856.7	1780.2	3172.9	3235.3	3417.7	2156.5	862.4	315.0
80°	168.8	180.2	236.8	404.6	923.6	1562.7	1554.7	1708.9	956.4	422.7	105.4
82.5°	75.9	83.9	133.7	211.9	451.0	592.7	639.1	699.2	410.2	269.7	46.5
85°	22.7	27.2	65.7	106.5	163.2	171.1	191.5	247.0	232.3	191.5	23.8
87.5°	3.4	3.4	27.2	29.5	23.8	30.6	31.7	35.1	74.8	70.3	12.5
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: P453262

CATALOG NUMBER: GALN-SA4B-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2	1380.2
2.5°	1382.5	1374.6	1346.2	1322.4	1302.0	1289.6	1274.8	1265.8	1261.2	1257.8	1259.0
5°	1388.2	1368.9	1320.2	1281.6	1252.2	1220.5	1198.9	1186.5	1180.8	1171.7	1171.7
7.5°	1419.9	1389.3	1321.3	1262.4	1211.4	1168.3	1127.5	1112.8	1102.6	1100.3	1098.1
10°	1465.2	1426.7	1333.8	1252.2	1179.7	1120.7	1062.9	1011.9	972.3	948.5	945.1
12.5°	1521.9	1466.4	1353.0	1245.4	1152.5	1048.2	895.2	792.1	723.0	701.4	704.8
15°	1574.0	1513.9	1372.3	1239.7	1102.6	869.2	695.8	577.9	542.8	539.4	540.5
17.5°	1636.3	1564.9	1395.0	1231.8	965.5	664.1	516.7	485.0	491.8	503.1	502.0
20°	1700.9	1619.3	1422.2	1184.2	770.6	499.7	456.7	460.1	470.3	480.5	482.7
22.5°	1770.0	1681.7	1453.9	1069.7	588.1	435.1	432.9	437.4	447.6	458.9	461.2
25°	1865.2	1759.9	1477.7	920.2	445.3	402.3	406.8	414.7	423.8	436.3	438.5
27.5°	1987.6	1865.2	1490.2	725.2	385.3	372.8	374.0	385.3	396.6	407.9	407.9
30°	2146.3	1991.0	1465.2	548.5	355.8	344.5	340.0	346.8	361.5	372.8	374.0
32.5°	2287.9	2110.0	1399.5	419.3	334.3	318.4	307.1	308.2	313.9	320.7	321.8
35°	2429.6	2225.6	1287.3	352.4	311.6	293.5	276.5	267.4	262.9	259.5	262.9
37.5°	2610.9	2369.5	1137.7	320.7	292.4	269.7	245.9	226.6	210.8	200.6	202.8
40°	2844.3	2569.0	960.9	300.3	274.2	247.0	215.3	190.4	163.2	154.1	149.6
42.5°	3229.6	2871.5	775.1	283.3	256.1	223.2	183.6	149.6	124.7	115.6	117.9
45°	3838.1	3253.4	597.2	265.2	238.0	197.2	154.1	117.9	97.5	92.9	95.2
47.5°	4645.0	3747.5	460.1	244.8	215.3	168.8	121.3	92.9	80.5	79.3	78.2
50°	5404.2	4207.6	384.2	222.1	188.1	140.5	99.7	78.2	70.3	69.1	69.1
52.5°	6090.9	4537.3	312.8	196.0	158.6	115.6	83.9	69.1	62.3	58.9	58.9
55°	6701.7	4752.6	253.8	164.3	124.7	91.8	72.5	62.3	54.4	49.9	48.7
57.5°	7162.9	4778.7	190.4	131.5	92.9	71.4	62.3	54.4	45.3	39.7	37.4
60°	7360.1	4553.2	140.5	99.7	69.1	56.7	49.9	44.2	34.0	28.3	27.2
62.5°	7161.8	4114.6	104.3	75.9	53.3	41.9	35.1	32.9	23.8	17.0	15.9
65°	6451.3	3481.2	82.7	57.8	39.7	30.6	22.7	21.5	14.7	7.9	6.8
67.5°	5168.5	2726.5	65.7	43.1	28.3	20.4	14.7	13.6	7.9	2.3	2.3
70°	3361.1	1742.9	53.3	31.7	18.1	13.6	9.1	6.8	4.5	1.1	0.0
72.5°	1662.4	814.8	43.1	24.9	12.5	6.8	3.4	2.3	3.4	0.0	0.0
75°	644.8	290.1	31.7	17.0	6.8	3.4	2.3	0.0	1.1	0.0	0.0
77.5°	214.2	96.3	19.3	9.1	4.5	2.3	0.0	0.0	0.0	0.0	0.0
80°	79.3	37.4	10.2	5.7	2.3	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	31.7	14.7	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.9	9.1	4.5	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	6.8	4.5	3.4	2.3	1.1	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)