

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: P527957

Luminaire Tested: **GALN-SA3A-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7424 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

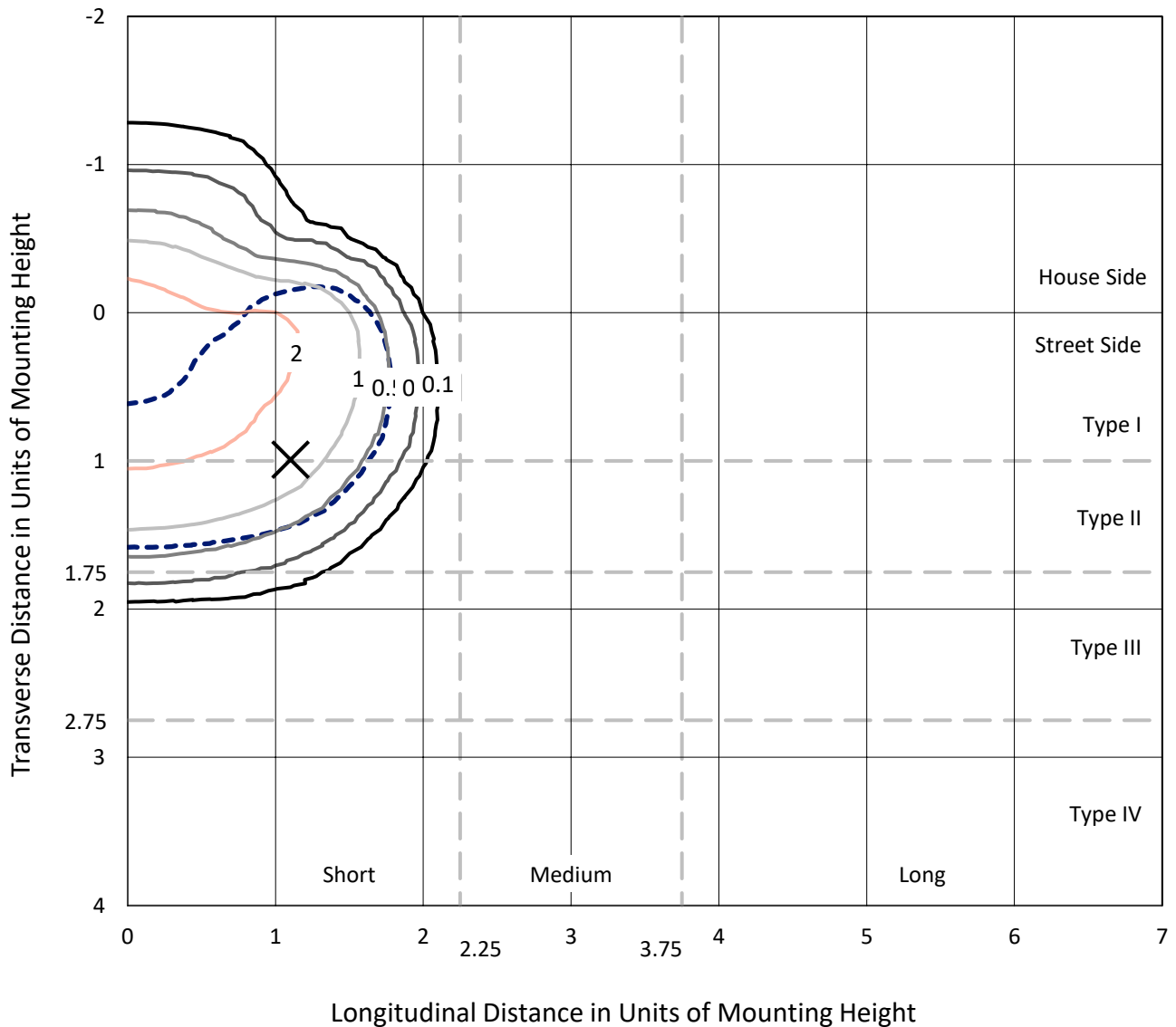
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

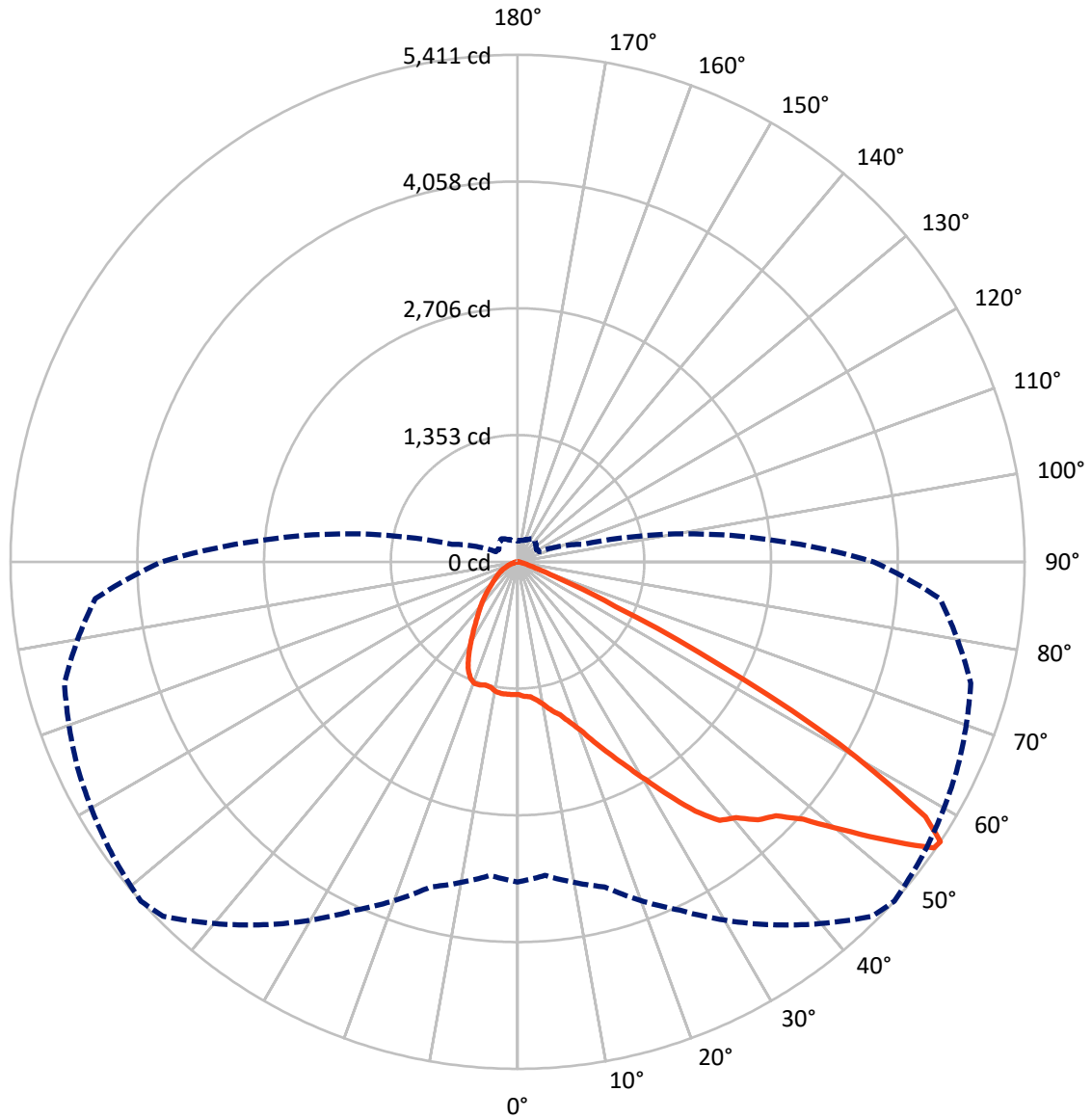
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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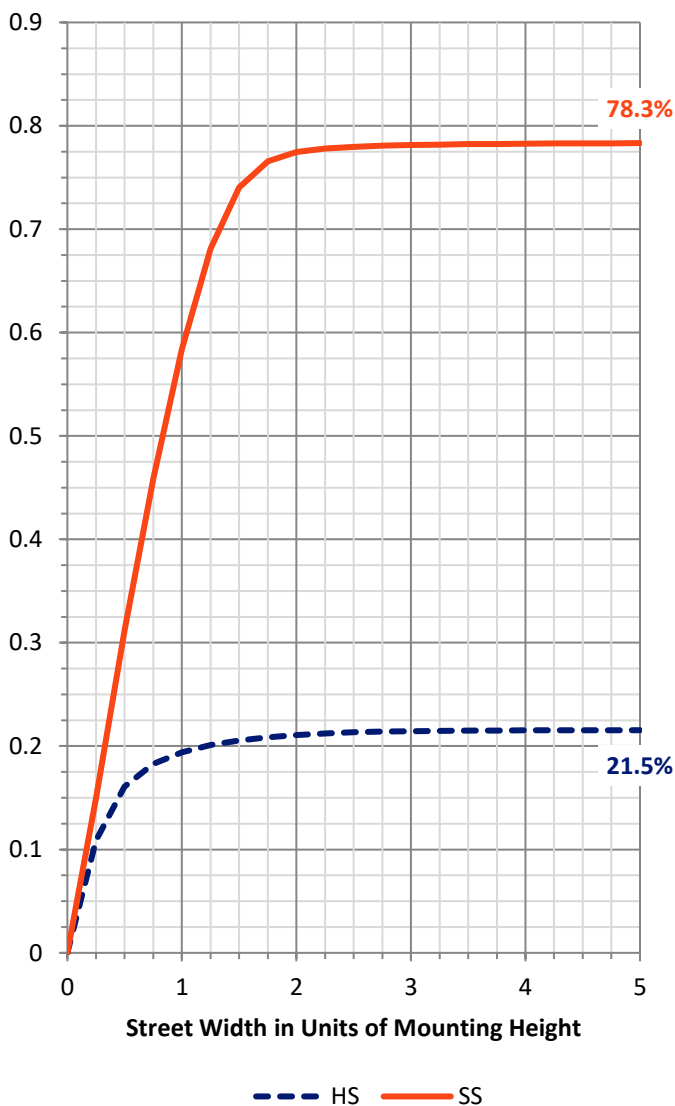
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1614.6	0.0	1614.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5809.4	0.0	5809.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	7424.0	0.0	7424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	1.9
10°-20°	441.4	5.9
20°-30°	800.7	10.8
30°-40°	1257.7	16.9
40°-50°	1834.7	24.7
50°-60°	2210.5	29.8
60°-70°	647.2	8.7
70°-80°	82.1	1.1
80°-90°	11.5	0.2
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°	7424.0	100.0
0°-180°	7424.0	100.0

Coefficient of Utilization

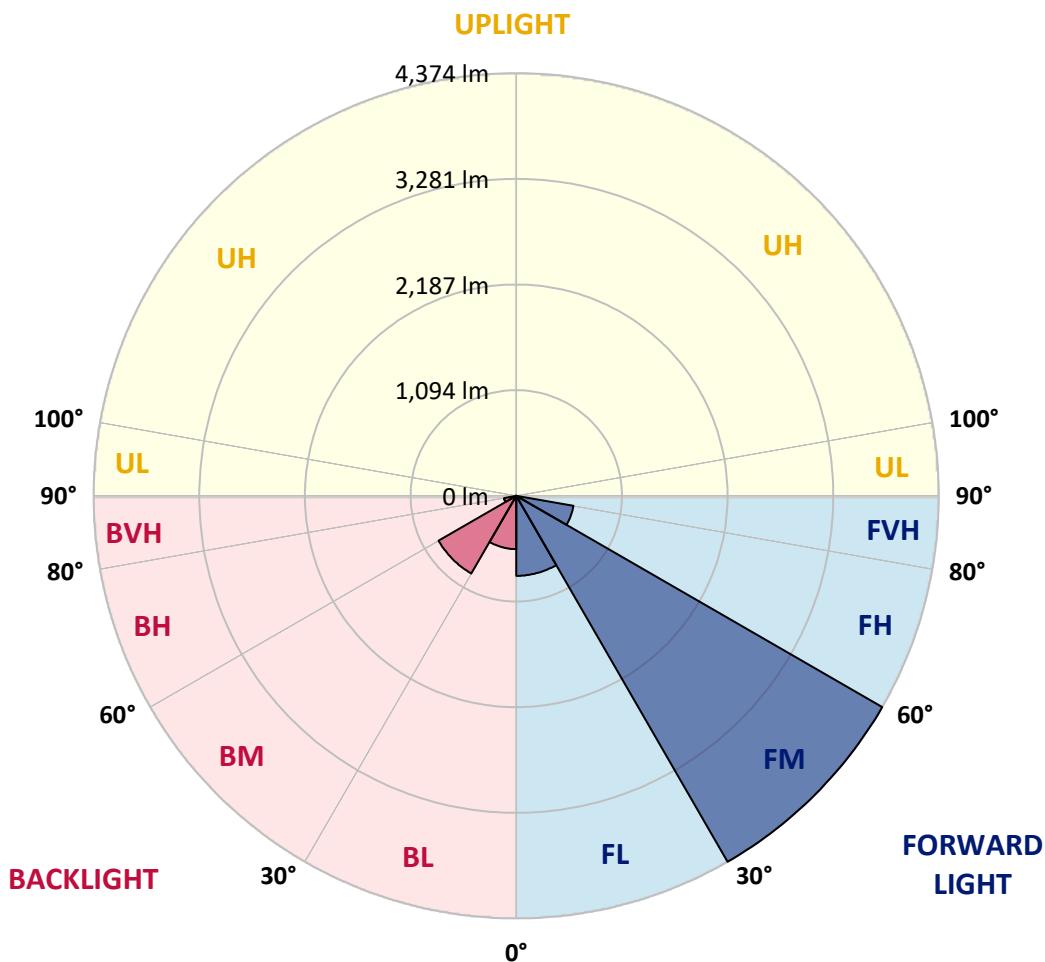


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.4	11.2			
FM (30°-60°)	4374.2	58.9			
FH (60°-80°)	601.0	8.1			G0/660
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	551.9	7.4	B2/1000		
BM (30°-60°)	928.7	12.5	B1/1000		
BH (60°-80°)	128.3	1.7	B1/500		G1/500
BVH (80°-90°)	5.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1443.7	1436.9	1436.9	1426.1	1438.3	1432.9	1436.9	1423.4	1436.9	1416.6	1432.9
5°	1450.4	1451.8	1446.4	1453.1	1453.1	1461.2	1447.7	1459.9	1466.7	1451.8	1445.0
7.5°	1485.6	1488.3	1486.9	1481.5	1492.3	1491.0	1489.6	1480.2	1482.9	1477.5	1469.4
10°	1554.5	1553.2	1559.9	1546.4	1538.3	1547.8	1550.5	1535.6	1524.8	1520.7	1495.0
12.5°	1654.5	1638.3	1628.9	1615.3	1619.4	1605.9	1630.2	1604.5	1599.1	1574.8	1549.1
15°	1735.6	1732.9	1734.3	1712.7	1688.3	1693.7	1693.7	1680.2	1672.1	1642.4	1605.9
17.5°	1901.9	1845.1	1857.3	1830.3	1810.0	1808.6	1796.5	1799.2	1777.6	1715.4	1660.0
20°	2031.7	2007.4	1988.4	1942.5	1911.4	1920.8	1915.4	1901.9	1895.2	1814.1	1735.6
22.5°	2147.9	2156.0	2125.0	2112.8	2069.5	2073.6	2084.4	2072.2	2020.9	1937.1	1820.8
25°	2311.5	2302.0	2260.1	2245.3	2204.7	2219.6	2261.5	2252.0	2219.6	2068.2	1887.0
27.5°	2504.8	2472.4	2480.5	2412.9	2373.7	2415.6	2465.6	2512.9	2421.0	2222.3	1965.4
30°	2641.3	2607.5	2604.8	2602.1	2592.7	2641.3	2699.4	2742.7	2668.4	2376.4	2095.2
32.5°	2708.9	2717.0	2740.0	2731.9	2814.3	2914.4	2975.2	3037.4	2944.1	2627.8	2266.9
35°	2888.7	2837.3	2888.7	2894.1	2979.3	3191.5	3268.5	3417.2	3394.2	2983.3	2476.4
37.5°	2994.1	2990.1	2996.8	3048.2	3130.7	3392.9	3502.4	3617.3	3574.0	3196.9	2737.3
40°	3168.5	3179.3	3178.0	3217.2	3307.7	3544.3	3588.9	3682.2	3686.2	3492.9	3121.2
42.5°	3448.3	3405.1	3376.7	3417.2	3544.3	3675.4	3764.6	3745.7	3879.5	3852.5	3614.6
45°	3699.7	3725.4	3683.5	3751.1	3797.1	3867.4	3864.7	3905.2	4075.5	4203.9	3986.3
47.5°	3934.9	3951.2	3971.4	4017.4	4117.4	4128.2	4105.3	4087.7	4322.9	4455.4	4274.2
50°	4075.5	4090.4	4185.0	4267.5	4454.0	4478.4	4491.9	4447.3	4606.8	4621.6	4545.9
52.5°	4037.7	4053.9	4186.4	4458.1	4755.5	4978.5	4937.9	4862.2	4852.8	4910.9	4797.4
55°	3702.4	3687.6	3870.1	4293.2	4850.1	5385.4	5390.8	5311.0	5158.3	5119.1	4759.5
56°	3417.2	3359.1	3591.6	4102.6	4728.4	5350.2	5411.1	5325.9	5182.6	5006.9	4525.7
57.5°	2799.5	2854.9	3086.0	3509.1	4308.0	5097.5	5132.6	5112.3	5004.2	4709.5	3982.3
60°	1543.7	1641.0	1845.1	2362.9	3067.1	3912.0	3940.4	4105.3	4125.5	3606.5	2740.0
62.5°	655.6	644.8	857.0	1238.2	1746.5	2361.5	2414.2	2583.2	2614.3	2079.0	1374.7
65°	266.3	281.2	388.0	623.2	923.2	1076.0	1150.3	1205.8	1308.5	858.4	506.9
67.5°	175.7	174.4	228.4	355.5	497.4	479.9	479.9	506.9	469.1	350.1	219.0
70°	125.7	129.8	163.6	246.0	309.6	229.8	220.3	210.9	239.3	231.1	177.1
72.5°	82.5	87.9	109.5	147.3	160.9	125.7	125.7	151.4	197.4	186.5	144.6
75°	54.1	55.4	67.6	85.2	79.8	64.9	71.6	101.4	143.3	137.9	102.7
77.5°	36.5	37.8	46.0	55.4	44.6	36.5	39.2	51.4	70.3	70.3	54.1
80°	13.5	14.9	18.9	17.6	20.3	25.7	28.4	35.1	41.9	41.9	36.5
82.5°	0.0	1.4	4.1	9.5	14.9	20.3	23.0	27.0	31.1	35.1	33.8
85°	0.0	1.4	4.1	6.8	10.8	12.2	13.5	9.5	8.1	8.1	6.8
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.7	1.4	1.4
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°	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1418.0	1416.6	1416.6	1412.6	1420.7	1416.6	1419.3	1418.0	1400.4	1413.9	1404.5
5°	1432.9	1442.3	1427.4	1424.7	1413.9	1418.0	1418.0	1404.5	1416.6	1415.3	1412.6
7.5°	1470.7	1454.5	1438.3	1422.0	1419.3	1415.3	1400.4	1395.0	1404.5	1393.7	1409.9
10°	1486.9	1489.6	1465.3	1443.7	1423.4	1395.0	1374.7	1362.6	1347.7	1363.9	1373.4
12.5°	1561.3	1534.2	1492.3	1458.5	1389.6	1361.2	1340.9	1335.5	1361.2	1366.6	1357.2
15°	1587.0	1582.9	1528.8	1453.1	1381.5	1347.7	1351.8	1340.9	1343.6	1330.1	1332.8
17.5°	1639.7	1593.7	1530.2	1435.6	1380.1	1372.0	1347.7	1304.4	1280.1	1269.3	1278.8
20°	1697.8	1653.2	1561.3	1442.3	1392.3	1370.7	1290.9	1238.2	1188.2	1161.2	1162.5
22.5°	1749.2	1693.7	1547.8	1445.0	1403.1	1313.9	1217.9	1113.8	1051.7	1009.8	1011.1
25°	1811.3	1732.9	1553.2	1450.4	1374.7	1223.3	1085.5	984.1	909.7	881.3	890.8
27.5°	1846.5	1757.3	1582.9	1462.6	1300.4	1094.9	946.2	851.6	808.3	794.8	793.5
30°	1951.9	1811.3	1619.4	1438.3	1176.0	957.0	819.2	761.0	719.1	707.0	709.7
32.5°	2108.7	1910.0	1666.7	1374.7	1049.0	834.0	736.7	693.4	654.2	631.3	628.6
35°	2239.9	2079.0	1716.7	1276.1	901.6	739.4	678.6	624.5	565.0	539.3	532.6
37.5°	2489.9	2269.6	1705.9	1127.4	761.0	669.1	616.4	550.2	498.8	463.7	459.6
40°	2822.5	2492.6	1653.2	946.2	657.0	606.9	550.2	486.6	423.1	393.4	390.7
42.5°	3226.6	2765.7	1557.2	762.4	552.9	544.8	493.4	420.4	363.6	342.0	343.3
45°	3555.1	2999.5	1459.9	612.3	475.8	483.9	439.3	370.4	331.2	313.6	313.6
47.5°	3847.1	3157.7	1354.5	505.6	404.2	423.1	383.9	343.3	309.6	296.0	293.3
50°	4128.2	3318.5	1249.0	409.6	344.7	363.6	359.6	327.1	300.1	283.9	285.2
52.5°	4304.0	3344.2	1115.2	335.2	301.4	323.1	336.6	306.8	277.1	267.6	264.9
55°	4089.0	3013.1	865.1	275.8	255.5	283.9	309.6	275.8	252.8	236.6	235.2
56°	3799.8	2694.0	723.2	254.1	242.0	273.1	300.1	263.6	237.9	228.4	221.7
57.5°	3217.2	2204.7	533.9	225.7	224.4	254.1	285.2	251.4	221.7	213.6	213.6
60°	2006.0	1240.9	323.1	189.2	194.7	225.7	256.8	224.4	197.4	197.4	201.4
62.5°	913.8	516.4	196.0	160.9	167.6	194.7	228.4	202.8	187.9	202.8	205.5
65°	310.9	223.0	141.9	128.4	132.5	160.9	196.0	205.5	204.1	213.6	219.0
67.5°	174.4	143.3	119.0	106.8	104.1	119.0	160.9	205.5	197.4	193.3	196.0
70°	147.3	121.7	105.4	94.6	90.6	96.0	124.4	155.5	139.2	135.2	132.5
72.5°	119.0	101.4	91.9	85.2	73.0	62.2	56.8	59.5	66.2	70.3	77.0
75°	83.8	77.0	77.0	68.9	52.7	39.2	31.1	25.7	17.6	12.2	13.5
77.5°	47.3	47.3	48.7	41.9	33.8	25.7	18.9	13.5	6.8	2.7	1.4
80°	32.4	35.1	37.8	33.8	28.4	23.0	16.2	9.5	4.1	0.0	0.0
82.5°	32.4	36.5	39.2	33.8	28.4	21.6	16.2	9.5	4.1	1.4	0.0
85°	6.8	8.1	9.5	10.8	16.2	16.2	12.2	8.1	4.1	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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)