

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: P948079

Luminaire Tested: **GALN-SB3B-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11976 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.2
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

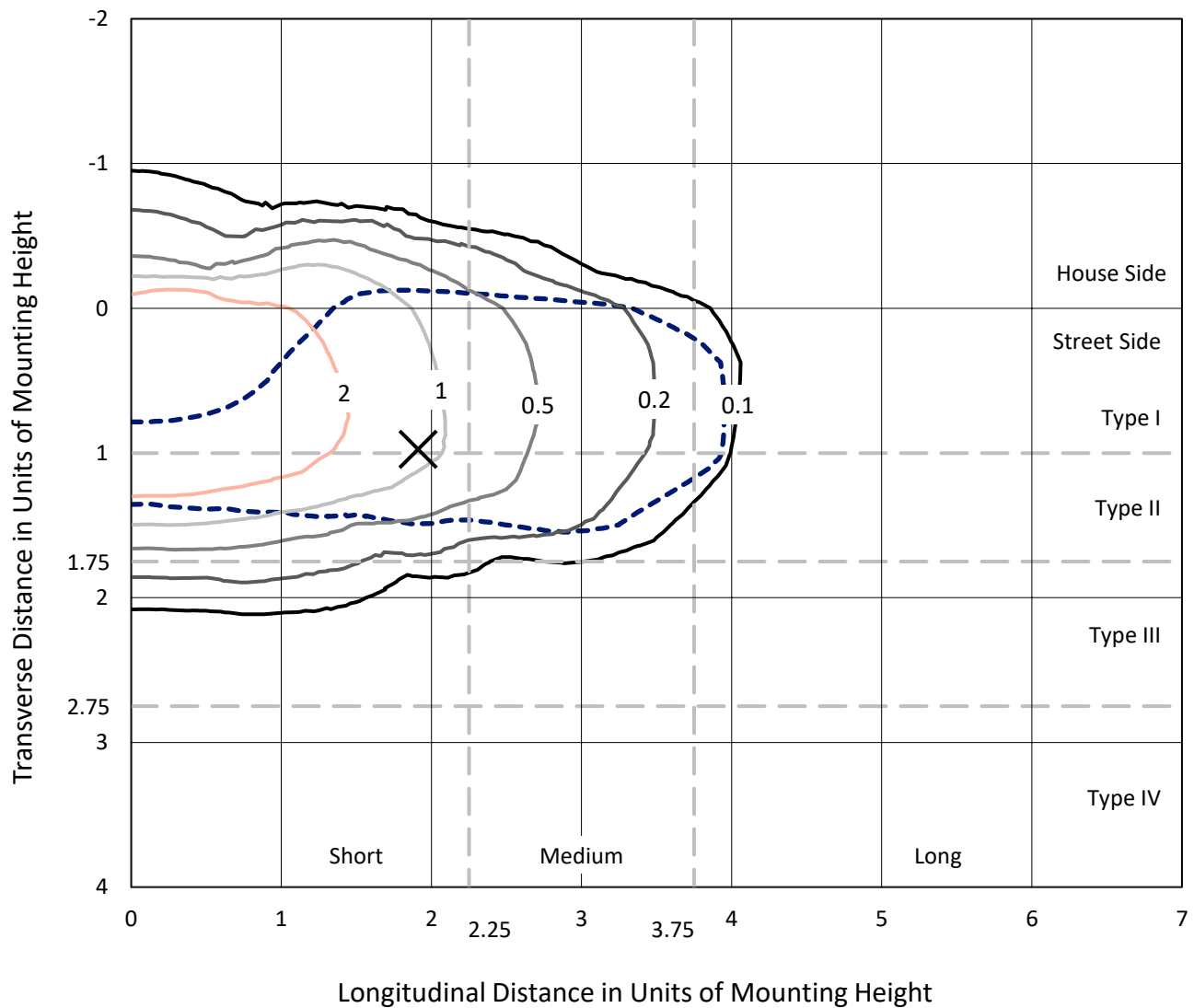


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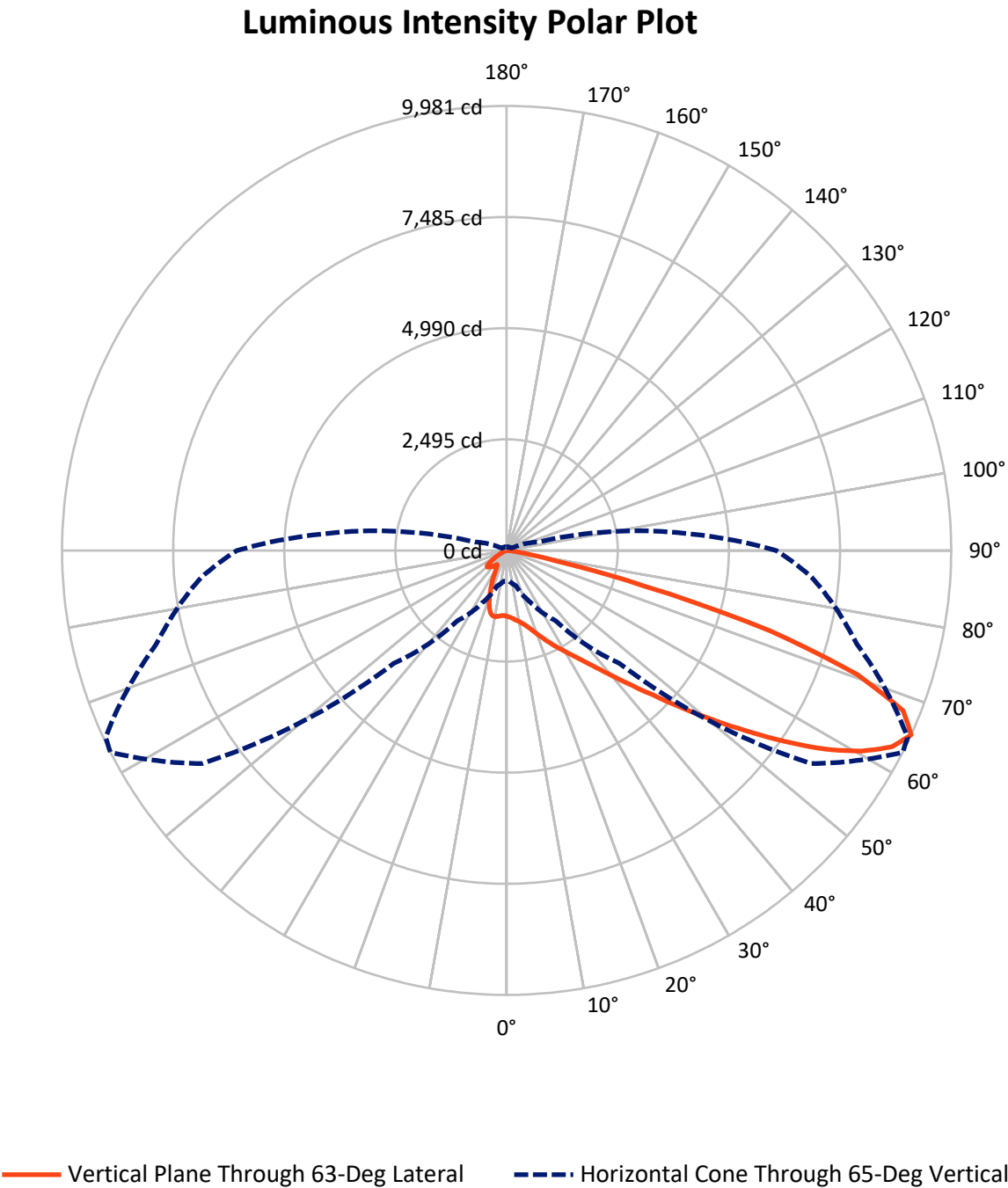
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - N/A

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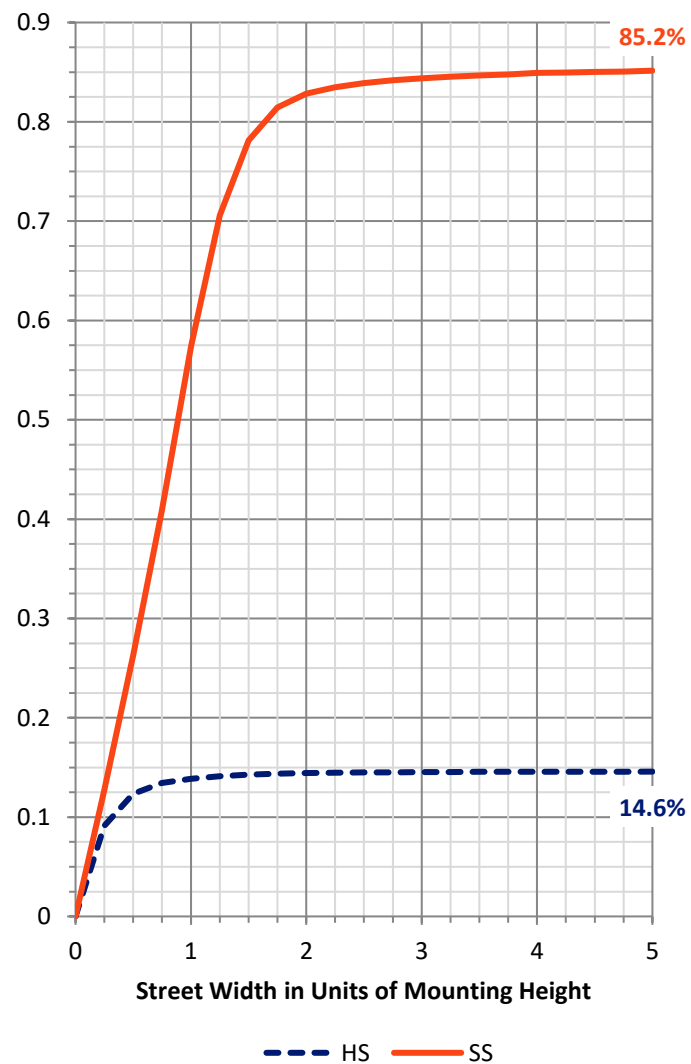
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1760.4	0.0	1760.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10215.6	0.0	10215.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	11976.0	0.0	11976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	1.2
10°-20°	386.4	3.2
20°-30°	672.8	5.6
30°-40°	1212.7	10.1
40°-50°	2405.1	20.1
50°-60°	3276.2	27.4
60°-70°	2615.0	21.8
70°-80°	1183.4	9.9
80°-90°	85.1	0.7
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°	11976.0	100.0
0°-180°	11976.0	100.0

Coefficient of Utilization



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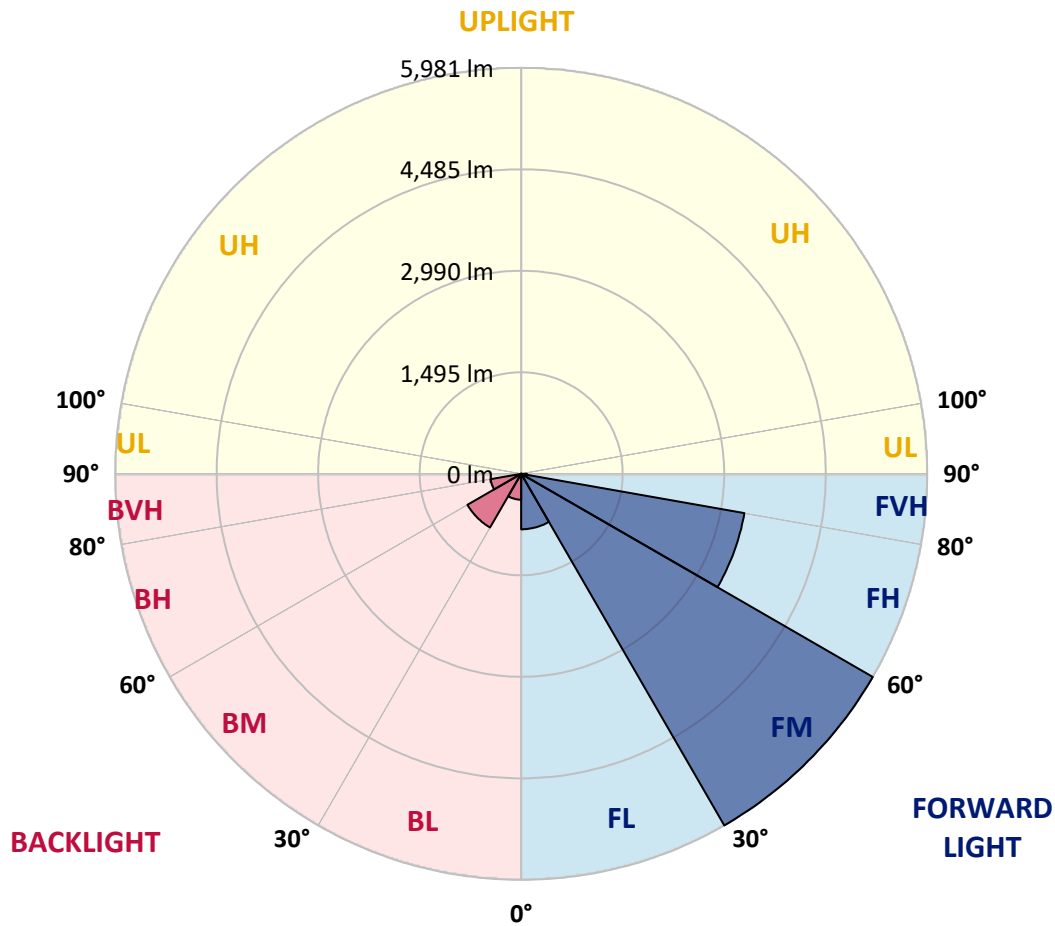
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.5	6.8			
FM	(30°-60°)	5980.5	49.9			
FH	(60°-80°)	3338.8	27.9			G2/5000
FVH	(80°-90°)	78.7	0.7			G1/100
BL	(0°-30°)	381.0	3.2	B1/500		
BM	(30°-60°)	913.5	7.6	B1/1000		
BH	(60°-80°)	459.6	3.8	B1/500		G1/500
BVH	(80°-90°)	6.3	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1512.7	1508.5	1514.3	1511.8	1510.2	1506.9	1505.3	1503.6	1500.3	1497.8	1488.0
5°	1516.8	1514.3	1520.1	1525.0	1530.0	1534.9	1537.4	1540.7	1537.4	1530.8	1520.9
7.5°	1482.2	1480.5	1492.9	1507.7	1530.0	1548.9	1569.5	1581.1	1581.9	1579.4	1568.7
10°	1479.7	1475.6	1488.0	1506.1	1534.9	1568.7	1604.9	1629.7	1633.0	1643.7	1632.1
12.5°	1518.4	1514.3	1531.6	1551.4	1581.1	1616.5	1661.0	1695.6	1700.5	1715.3	1707.1
15°	1583.5	1577.8	1597.5	1623.1	1661.0	1701.3	1748.3	1779.6	1783.7	1801.9	1787.0
17.5°	1659.3	1653.6	1676.6	1703.8	1745.0	1800.2	1854.6	1889.2	1894.1	1905.7	1878.5
20°	1756.5	1749.1	1767.3	1792.0	1835.6	1901.5	1966.6	2016.1	2015.2	2015.2	1970.8
22.5°	1869.4	1857.9	1873.5	1893.3	1934.5	2014.4	2100.9	2159.4	2159.4	2136.4	2063.0
25°	1990.5	1979.0	1996.3	2014.4	2050.7	2141.3	2242.6	2315.1	2318.4	2278.9	2161.9
27.5°	2142.1	2127.3	2140.5	2161.9	2183.3	2275.6	2395.9	2479.9	2481.6	2420.6	2255.8
30°	2433.8	2391.8	2350.6	2327.5	2337.4	2428.8	2557.4	2650.5	2658.7	2574.7	2358.0
32.5°	2967.7	2959.4	2814.4	2624.9	2526.1	2593.6	2737.8	2849.8	2854.8	2746.9	2490.6
35°	3797.3	3787.4	3554.3	3193.4	2871.3	2814.4	2957.0	3089.6	3086.3	2964.4	2662.8
37.5°	4787.6	4778.6	4471.3	3988.5	3466.9	3148.1	3239.5	3378.8	3399.4	3239.5	2885.3
40°	5633.8	5600.0	5405.6	4940.1	4257.9	3701.8	3641.6	3733.9	3755.3	3565.8	3167.9
42.5°	6274.8	6245.9	6147.1	5856.2	5215.2	4520.7	4115.3	4150.8	4174.7	3947.3	3492.5
45°	6606.8	6600.2	6639.8	6612.6	6190.7	5525.9	4792.6	4645.1	4654.2	4369.9	3860.8
47.5°	6653.8	6650.5	6830.9	7086.3	7029.5	6659.5	5661.8	5261.4	5229.3	4847.0	4261.2
50°	6376.9	6370.3	6716.4	7195.1	7589.7	7612.0	6648.8	5955.9	5885.1	5340.5	4678.9
52.5°	5492.9	5491.2	6059.7	6856.4	7786.6	8445.7	7624.3	6718.9	6600.2	5862.8	5120.5
55°	4226.6	4257.1	4908.8	5850.5	7427.4	8847.0	8500.1	7565.8	7383.7	6388.5	5527.5
57.5°	2994.0	3038.5	3682.8	4521.5	6313.5	8609.7	9092.5	8414.4	8218.3	6912.5	5940.3
60°	1608.2	1647.8	2292.9	3293.9	4697.0	7724.8	9404.7	9151.0	8965.6	7410.1	6312.7
62.5°	958.2	971.4	1238.3	2126.5	3176.9	5901.5	9272.1	9712.1	9559.6	7827.8	6636.5
65°	688.0	690.4	824.7	1298.5	1928.7	3585.6	8341.9	9980.6	9933.7	8142.5	6876.2
67.5°	579.2	577.5	633.6	862.6	1314.1	1796.1	6393.4	9600.8	9800.2	8341.9	7012.2
70°	496.8	499.3	565.2	631.9	987.8	1016.7	3178.6	8359.2	8784.4	8394.6	7003.9
72.5°	369.9	378.2	439.1	575.9	745.6	699.5	1097.4	6198.1	6966.8	7909.4	6640.6
75°	261.2	265.3	309.0	484.4	556.1	509.2	560.2	3204.1	4189.5	6063.9	5435.2
77.5°	201.0	208.4	234.0	338.6	547.9	357.6	342.7	1109.0	1703.8	3663.0	3726.5
80°	108.8	121.9	168.9	244.7	384.8	252.9	169.7	441.6	577.5	1712.9	1436.9
82.5°	56.0	62.6	117.8	176.3	219.2	220.8	84.0	183.7	238.1	528.9	196.9
85°	22.2	27.2	79.1	97.2	112.9	108.8	37.9	74.2	85.7	146.7	60.1
87.5°	4.9	8.2	28.8	22.2	21.4	23.1	9.1	17.3	16.5	17.3	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1487.1	1483.8	1474.8	1464.9	1453.3	1446.8	1442.6	1441.8	1436.0	1431.9	1436.0
5°	1511.8	1508.5	1491.2	1470.6	1448.4	1431.1	1414.6	1399.8	1378.4	1374.3	1372.6
7.5°	1561.3	1552.2	1524.2	1496.2	1454.2	1403.9	1342.9	1272.9	1210.3	1191.3	1182.3
10°	1622.2	1609.9	1574.5	1525.0	1431.9	1295.2	1147.7	1010.9	902.2	871.7	860.1
12.5°	1691.5	1680.7	1633.8	1542.3	1338.8	1090.8	865.1	695.4	589.9	563.5	556.1
15°	1773.8	1758.2	1693.1	1516.0	1172.4	828.8	594.0	493.5	455.6	450.7	445.7
17.5°	1861.2	1835.6	1745.8	1421.2	948.3	589.1	458.9	430.1	413.6	408.7	406.2
20°	1941.1	1908.1	1777.1	1277.9	708.5	458.9	411.1	392.2	377.3	371.6	368.3
22.5°	2021.0	1974.0	1777.1	1082.6	531.4	407.0	377.3	360.0	342.7	335.3	331.2
25°	2104.2	2041.6	1745.8	865.1	427.6	373.2	345.2	326.3	311.4	302.4	299.1
27.5°	2185.0	2098.5	1674.2	659.1	380.6	343.6	315.6	297.4	283.4	276.8	276.8
30°	2261.6	2154.5	1573.6	500.1	350.2	314.7	288.4	272.7	258.7	252.1	252.9
32.5°	2365.4	2225.3	1466.5	410.3	323.8	287.5	263.6	248.8	236.5	231.5	231.5
35°	2509.6	2330.0	1374.3	402.9	301.5	265.3	241.4	227.4	215.0	210.9	210.9
37.5°	2713.9	2498.9	1325.6	452.3	283.4	245.5	223.3	208.4	196.9	193.6	192.8
40°	2966.0	2727.9	1352.0	501.8	271.1	228.2	206.8	192.0	182.1	178.0	177.1
42.5°	3265.1	3010.5	1497.8	539.7	262.8	213.4	191.1	174.7	168.1	166.4	166.4
45°	3608.7	3321.1	1721.1	580.0	249.6	199.4	175.5	163.1	158.2	157.4	156.5
47.5°	3999.2	3662.2	1979.8	630.3	236.5	186.2	163.1	154.9	150.8	149.1	149.1
50°	4386.4	4005.8	2245.9	658.3	225.7	173.8	153.2	146.7	143.4	142.5	142.5
52.5°	4791.8	4359.2	2461.0	631.9	216.7	164.0	145.0	140.1	136.8	135.9	135.9
55°	5178.2	4645.1	2498.0	536.4	198.6	154.1	135.9	133.5	129.4	129.4	128.5
57.5°	5511.0	4788.5	2236.0	393.8	180.4	139.2	126.9	124.4	121.1	120.3	119.5
60°	5816.7	4747.3	1726.1	265.3	160.7	124.4	115.3	113.7	110.4	106.3	105.5
62.5°	5988.9	4566.0	1180.6	173.0	140.9	108.8	102.2	101.3	93.9	85.7	84.0
65°	6054.0	4193.6	736.6	126.1	117.8	93.1	88.2	86.5	75.8	66.7	65.9
67.5°	5997.1	3580.6	371.6	99.7	93.1	77.4	72.5	72.5	65.1	56.8	56.0
70°	5769.7	2684.2	156.5	79.9	71.7	59.3	59.3	62.6	55.2	46.1	45.3
72.5°	5276.2	1806.0	83.2	61.0	53.6	42.0	48.6	51.1	43.7	34.6	34.6
75°	4194.4	1101.5	57.7	45.3	33.8	29.7	37.1	38.7	29.7	23.1	22.2
77.5°	2868.8	632.8	38.7	28.8	21.4	17.3	25.5	23.9	15.7	10.7	11.5
80°	1259.7	263.6	22.2	13.2	8.2	6.6	9.1	6.6	4.9	3.3	3.3
82.5°	147.5	61.8	8.2	4.9	3.3	1.6	0.8	0.0	0.0	0.0	0.0
85°	30.5	7.4	4.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	1.6	0.8	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)