

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: STREETWORKS

Report Number: P323796

Luminaire Tested: **GAN-SA2B-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8642 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

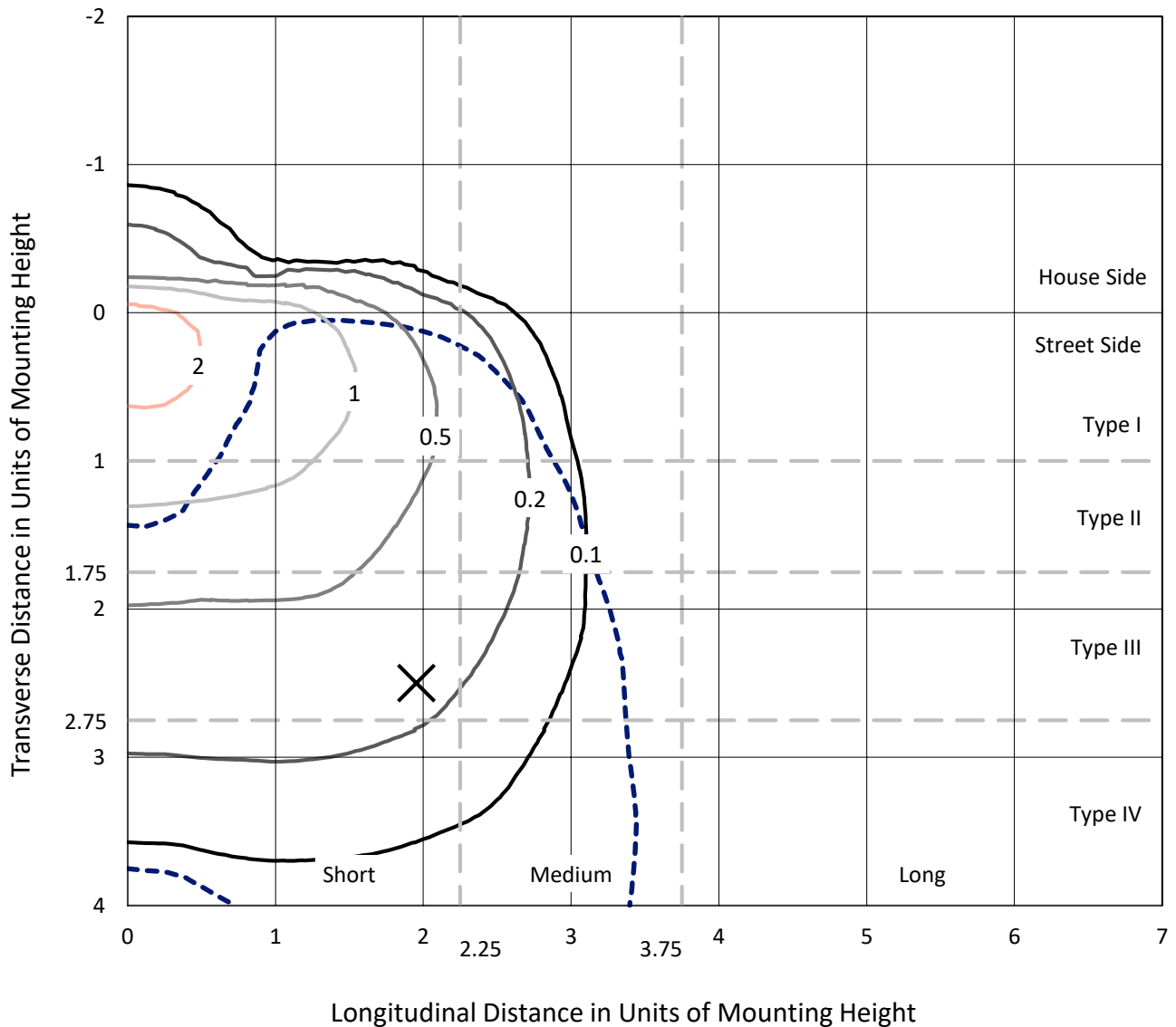
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

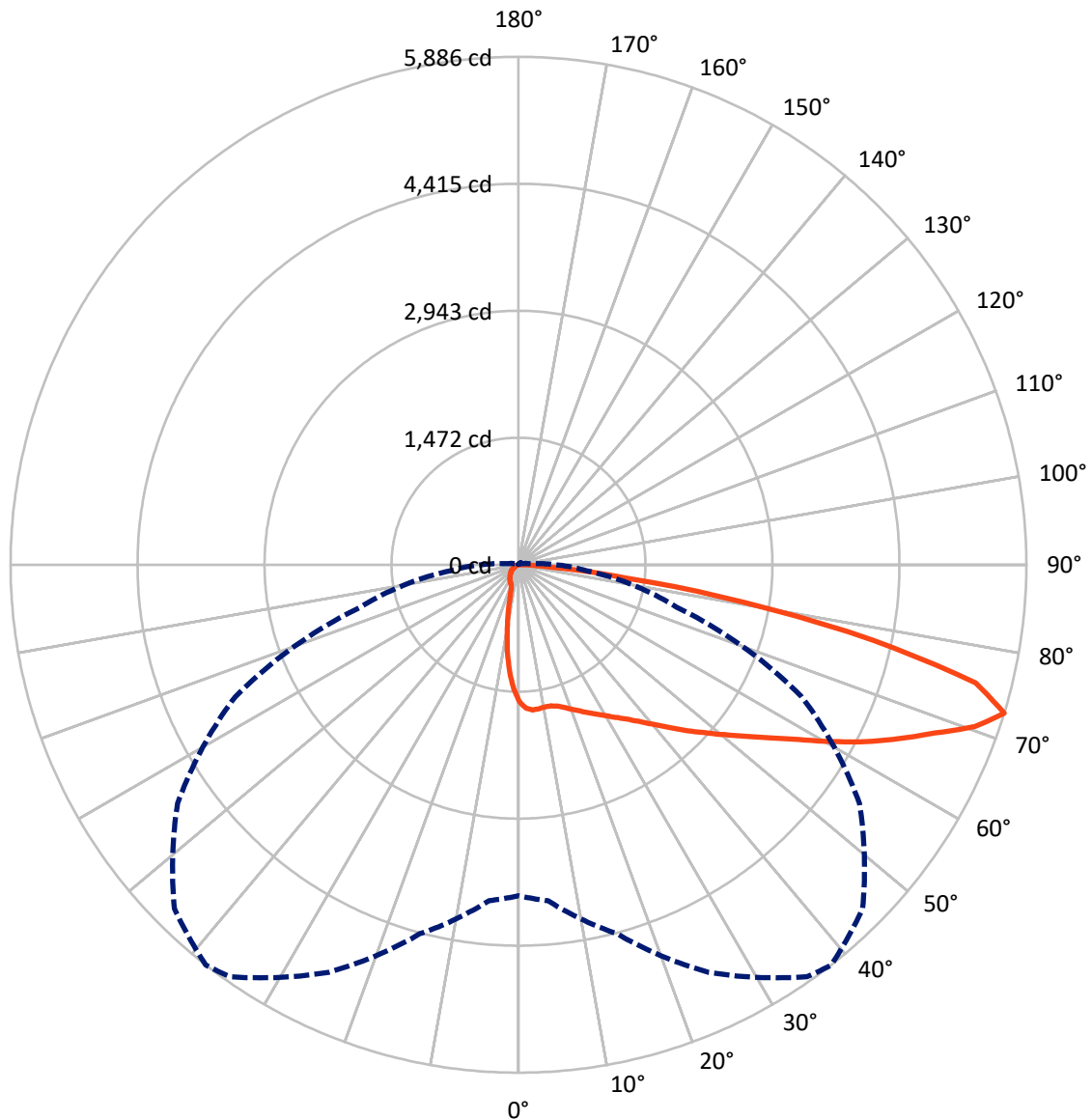
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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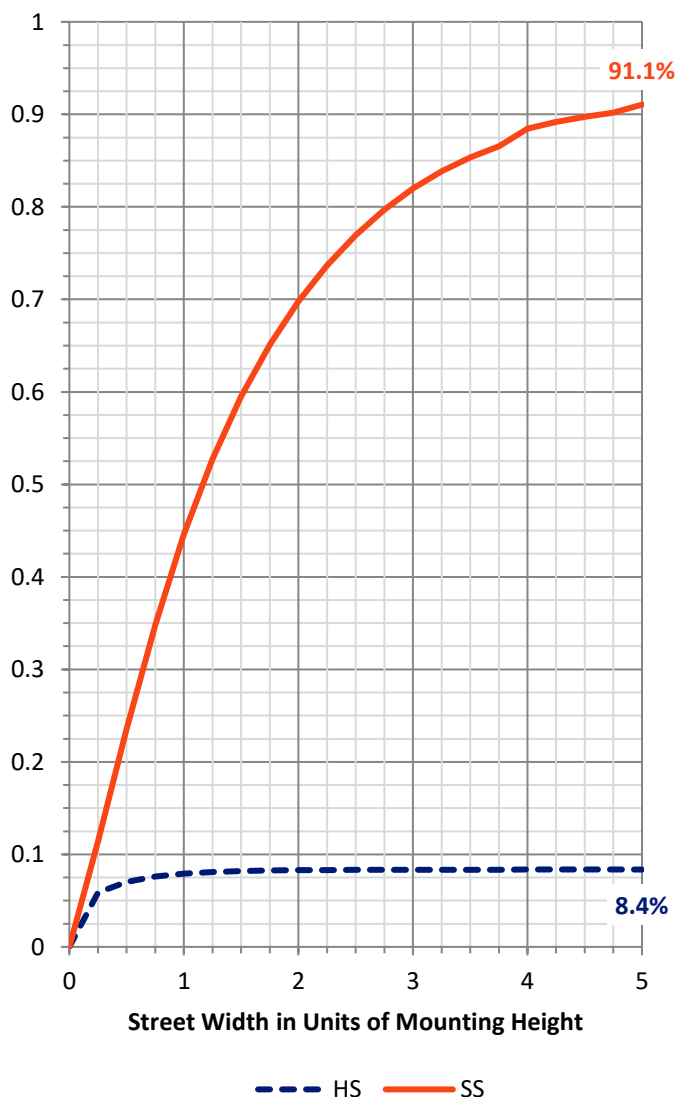
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	727.3	0.0	727.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7914.7	0.0	7914.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	8642.0	0.0	8642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	1.6
10°-20°	331.2	3.8
20°-30°	526.7	6.1
30°-40°	791.9	9.2
40°-50°	1208.0	14.0
50°-60°	1707.4	19.8
60°-70°	2141.6	24.8
70°-80°	1601.3	18.5
80°-90°	198.6	2.3
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°	8642.0	100.0
0°-180°	8642.0	100.0

Coefficient of Utilization

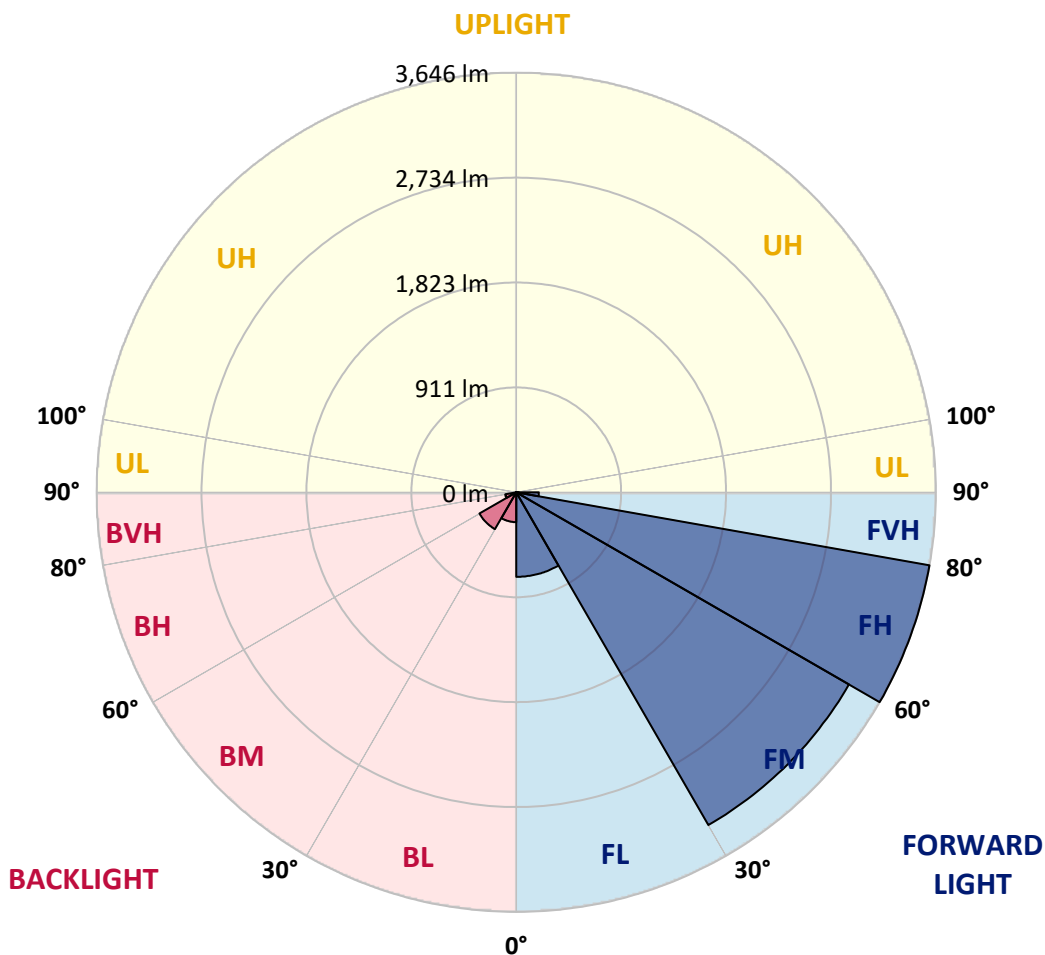


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.4	8.5			
FM (30°-60°)	3337.9	38.6			
FH (60°-80°)	3645.8	42.2			G2/5000
FVH (80°-90°)	196.7	2.3			G2/225
BL (0°-30°)	258.9	3.0	B1/500		
BM (30°-60°)	369.3	4.3	B1/1000		
BH (60°-80°)	97.1	1.1	B0/110		G0/110
BVH (80°-90°)	1.9	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2
2.5°	1686.9	1687.2	1683.3	1676.8	1668.6	1664.2	1657.1	1645.6	1633.4	1611.5	1587.8
5°	1721.3	1721.3	1716.3	1707.7	1694.4	1690.4	1676.8	1658.5	1633.4	1597.8	1558.0
7.5°	1717.7	1718.4	1711.6	1702.6	1689.4	1685.8	1669.3	1648.8	1617.6	1574.5	1523.6
10°	1699.1	1700.9	1695.5	1691.2	1679.0	1675.0	1659.6	1639.1	1607.9	1562.0	1503.5
12.5°	1680.0	1681.8	1683.6	1687.6	1680.0	1678.6	1666.4	1649.2	1619.4	1571.6	1505.6
15°	1667.8	1671.4	1684.3	1699.8	1701.6	1700.1	1692.2	1676.1	1645.9	1596.4	1521.0
17.5°	1667.8	1673.6	1700.5	1729.9	1740.3	1741.4	1734.6	1712.0	1676.1	1623.0	1535.4
20°	1681.8	1689.7	1731.7	1773.4	1790.6	1790.6	1777.3	1745.7	1703.7	1647.0	1545.1
22.5°	1717.7	1728.1	1780.9	1829.0	1847.3	1843.3	1825.4	1779.5	1732.4	1674.3	1557.3
25°	1788.4	1796.3	1851.2	1899.7	1910.8	1901.8	1879.2	1820.4	1769.0	1711.3	1579.5
27.5°	1879.6	1880.7	1937.4	1978.3	1971.5	1965.4	1937.0	1871.7	1821.8	1764.0	1617.9
30°	1979.7	1979.7	2029.6	2060.8	2040.0	2035.0	2006.6	1933.8	1889.3	1835.8	1672.5
32.5°	2076.6	2080.9	2121.5	2141.2	2117.9	2112.9	2085.2	2012.4	1979.0	1945.3	1757.6
35°	2170.3	2173.5	2211.9	2222.7	2200.5	2201.9	2182.1	2120.4	2107.9	2103.5	1885.7
37.5°	2261.1	2261.8	2300.9	2307.8	2296.6	2308.8	2310.6	2256.1	2279.4	2314.2	2066.2
40°	2344.0	2344.7	2383.5	2401.1	2420.1	2435.9	2449.9	2420.8	2498.0	2578.7	2281.2
42.5°	2410.4	2417.9	2467.1	2500.5	2550.7	2580.9	2618.9	2617.5	2758.2	2879.5	2541.1
45°	2468.9	2481.8	2550.4	2608.9	2695.0	2743.1	2802.7	2849.4	3051.1	3214.4	2804.1
47.5°	2546.1	2558.3	2636.5	2732.4	2847.2	2910.4	3009.1	3109.9	3373.0	3543.1	3061.1
50°	2654.8	2649.4	2726.6	2864.1	3011.6	3094.5	3235.2	3386.3	3692.4	3829.5	3212.2
52.5°	2770.8	2768.6	2825.7	3007.3	3205.4	3302.3	3488.2	3672.0	3997.9	4026.9	3281.5
55°	2914.3	2898.9	2947.0	3170.6	3435.4	3539.5	3758.5	3954.8	4241.2	4138.2	3316.3
57.5°	3064.7	3039.2	3085.2	3352.5	3694.9	3818.0	4057.8	4230.4	4403.1	4214.3	3315.9
60°	3220.1	3190.0	3244.5	3580.1	4017.2	4159.7	4382.2	4416.7	4554.2	4252.7	3291.5
62.5°	3350.0	3332.1	3413.2	3823.4	4377.2	4517.2	4627.4	4586.1	4681.6	4282.5	3234.5
65°	3487.5	3488.6	3619.6	4107.3	4759.8	4854.2	4863.5	4805.7	4788.2	4276.4	3041.4
67.5°	3673.4	3690.6	3909.2	4492.8	5132.0	5204.9	5204.1	5043.7	4866.0	4033.7	2613.2
70°	3870.1	3910.6	4243.0	4933.9	5538.3	5612.2	5574.2	5195.2	4581.8	3261.7	1849.4
72.5°	3837.1	3907.4	4428.5	5212.0	5830.1	5886.4	5639.1	4823.0	3621.4	1895.7	787.4
75°	2960.3	3041.7	4060.7	4936.4	5523.9	5473.3	4845.2	3753.1	1979.0	529.0	177.3
77.5°	1563.8	1607.2	2682.5	3760.6	4307.2	4201.4	3413.2	2082.0	603.3	131.0	79.7
80°	819.0	829.1	1169.0	2133.7	2658.4	2659.1	2022.8	914.5	248.7	67.1	53.5
82.5°	438.6	447.2	617.7	985.9	1392.9	1262.6	774.5	503.2	144.6	38.0	51.3
85°	105.5	107.3	350.3	450.4	547.7	391.2	230.1	422.4	39.1	22.3	41.6
87.5°	40.6	41.3	129.9	194.9	139.6	90.4	107.7	157.6	5.0	8.6	6.5
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°	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2
2.5°	1573.4	1564.1	1541.1	1512.1	1486.2	1467.6	1439.6	1421.3	1409.1	1408.7	1404.0
5°	1533.6	1514.6	1465.1	1406.2	1352.7	1304.6	1247.9	1203.1	1169.7	1164.3	1152.8
7.5°	1490.9	1459.7	1383.6	1291.7	1202.0	1110.8	1004.9	939.3	882.9	856.0	853.1
10°	1464.7	1420.9	1312.9	1180.1	1039.4	891.2	752.6	656.8	587.5	567.8	553.1
12.5°	1459.3	1401.5	1258.3	1075.3	874.3	678.3	525.1	423.2	367.9	350.3	345.6
15°	1464.7	1392.6	1212.4	971.6	707.0	481.3	352.4	293.2	272.4	267.4	267.0
17.5°	1467.9	1381.8	1160.3	856.3	544.8	343.8	269.9	252.7	249.4	249.1	249.8
20°	1467.6	1365.3	1098.3	727.9	405.2	270.3	244.1	240.5	239.7	240.1	239.7
22.5°	1465.1	1345.9	1030.1	595.4	306.1	241.5	232.9	230.8	230.4	230.4	230.4
25°	1469.7	1330.5	955.0	468.7	252.3	228.3	222.9	221.1	220.7	220.7	220.0
27.5°	1486.6	1321.9	872.9	360.7	227.9	216.4	212.1	211.8	210.7	210.3	211.0
30°	1513.9	1321.9	782.8	280.7	213.2	204.2	201.0	200.3	199.9	199.6	199.9
32.5°	1562.0	1331.9	684.4	233.3	199.2	190.6	188.4	189.5	188.4	188.4	188.4
35°	1648.8	1362.0	581.4	203.5	184.5	177.3	175.1	176.6	175.9	175.9	175.5
37.5°	1775.5	1418.0	477.7	185.6	171.6	164.0	161.1	163.3	162.6	162.6	162.2
40°	1929.8	1499.5	379.0	171.9	159.0	151.1	148.6	149.7	147.9	147.9	148.6
42.5°	2120.4	1602.9	292.9	158.6	146.4	138.9	137.5	136.4	133.2	131.4	131.7
45°	2332.2	1710.5	228.3	145.7	134.6	128.5	126.3	123.5	118.1	114.5	114.8
47.5°	2521.3	1793.5	185.6	133.2	123.8	119.2	115.9	110.5	102.6	98.3	98.7
50°	2620.7	1806.0	157.9	120.6	113.8	109.1	104.4	96.2	86.9	82.2	81.8
52.5°	2646.2	1747.2	137.5	109.1	103.7	98.3	92.2	81.1	70.7	65.7	65.0
55°	2655.5	1657.4	119.2	98.3	93.0	86.9	79.0	66.4	56.7	51.7	51.3
57.5°	2624.7	1523.6	104.8	88.6	82.2	74.7	65.0	53.1	43.8	39.8	39.8
60°	2556.1	1342.3	93.7	78.2	71.1	62.4	52.4	41.3	32.7	29.4	29.4
62.5°	2419.4	1107.6	83.3	67.5	60.7	51.7	42.4	31.2	23.0	21.2	21.5
65°	2161.3	840.2	72.9	57.8	51.7	42.7	33.0	22.3	15.4	15.4	16.2
67.5°	1762.6	583.6	62.1	49.2	44.5	34.8	25.1	15.4	10.8	12.2	13.6
70°	1166.8	327.3	53.1	40.6	38.0	27.6	18.7	10.4	8.6	11.5	14.0
72.5°	440.4	127.4	44.5	32.7	33.0	21.2	13.3	7.9	7.9	12.6	16.5
75°	122.7	62.4	31.9	24.0	25.8	15.4	9.7	6.8	7.5	14.4	19.4
77.5°	72.1	45.9	20.8	14.0	17.6	10.8	6.5	5.4	6.5	12.2	18.7
80°	58.1	24.4	12.2	7.2	9.7	6.1	4.3	3.2	1.8	4.7	9.7
82.5°	58.1	14.7	5.7	5.0	5.0	3.2	2.2	1.4	0.4	0.0	2.5
85°	39.1	6.1	3.6	3.2	2.5	1.1	0.7	0.4	0.0	0.0	0.0
87.5°	6.5	2.5	1.4	0.7	0.4	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)