

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: P526408

Luminaire Tested: **GALN-SA1B-760-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-760-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5195 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

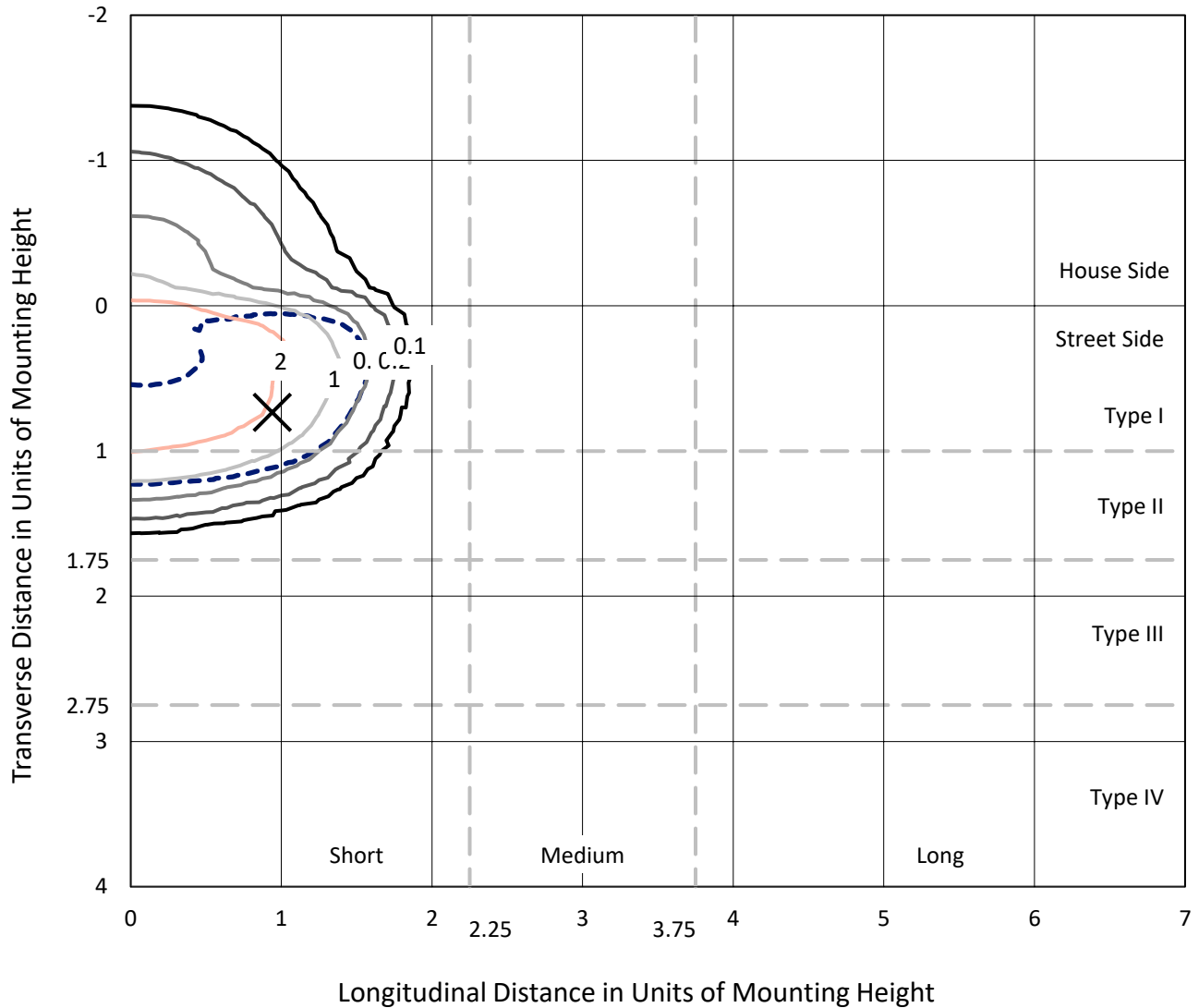
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

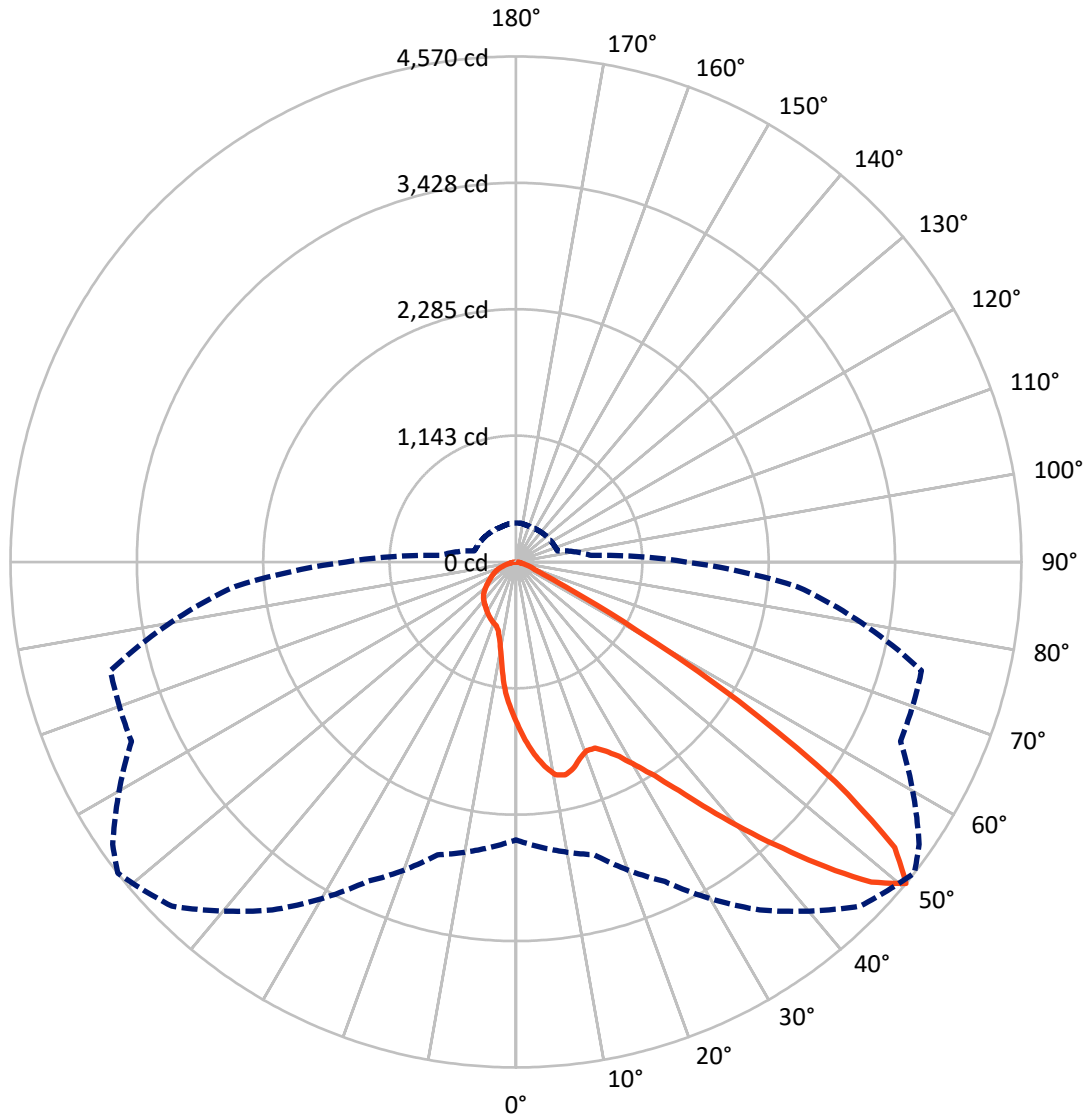
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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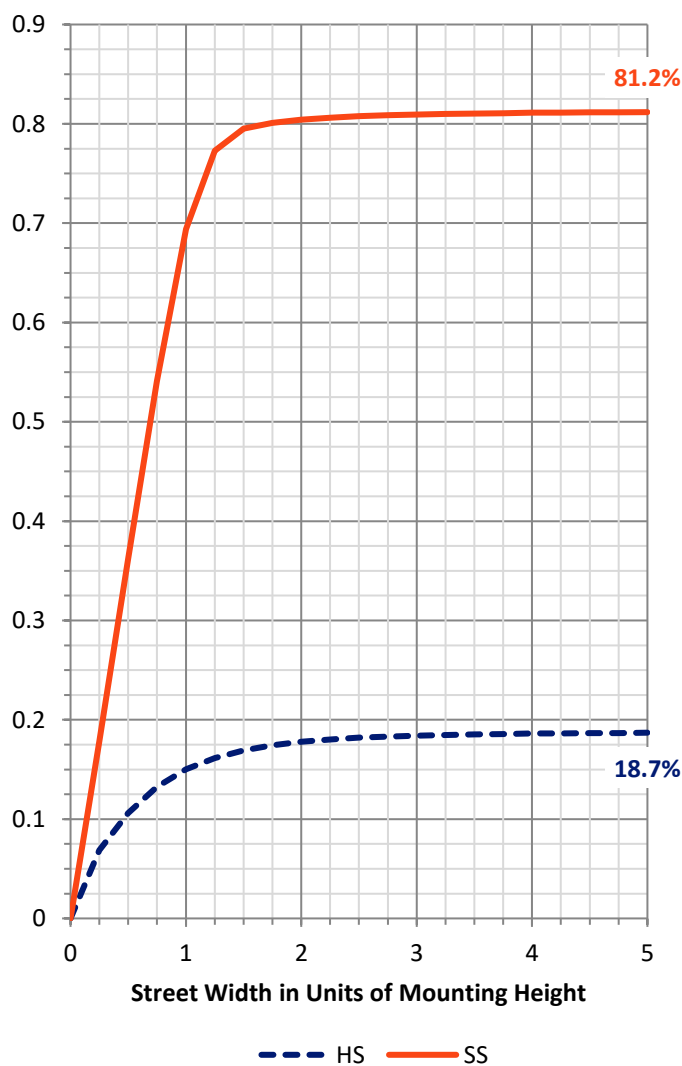
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	976.5	0.0	976.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4218.5	0.0	4218.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	5195.0	0.0	5195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	2.6
10°-20°	361.8	7.0
20°-30°	609.4	11.7
30°-40°	1022.6	19.7
40°-50°	1564.3	30.1
50°-60°	1140.5	22.0
60°-70°	253.8	4.9
70°-80°	91.6	1.8
80°-90°	16.2	0.3
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°	5195.0	100.0
0°-180°	5195.0	100.0

Coefficient of Utilization



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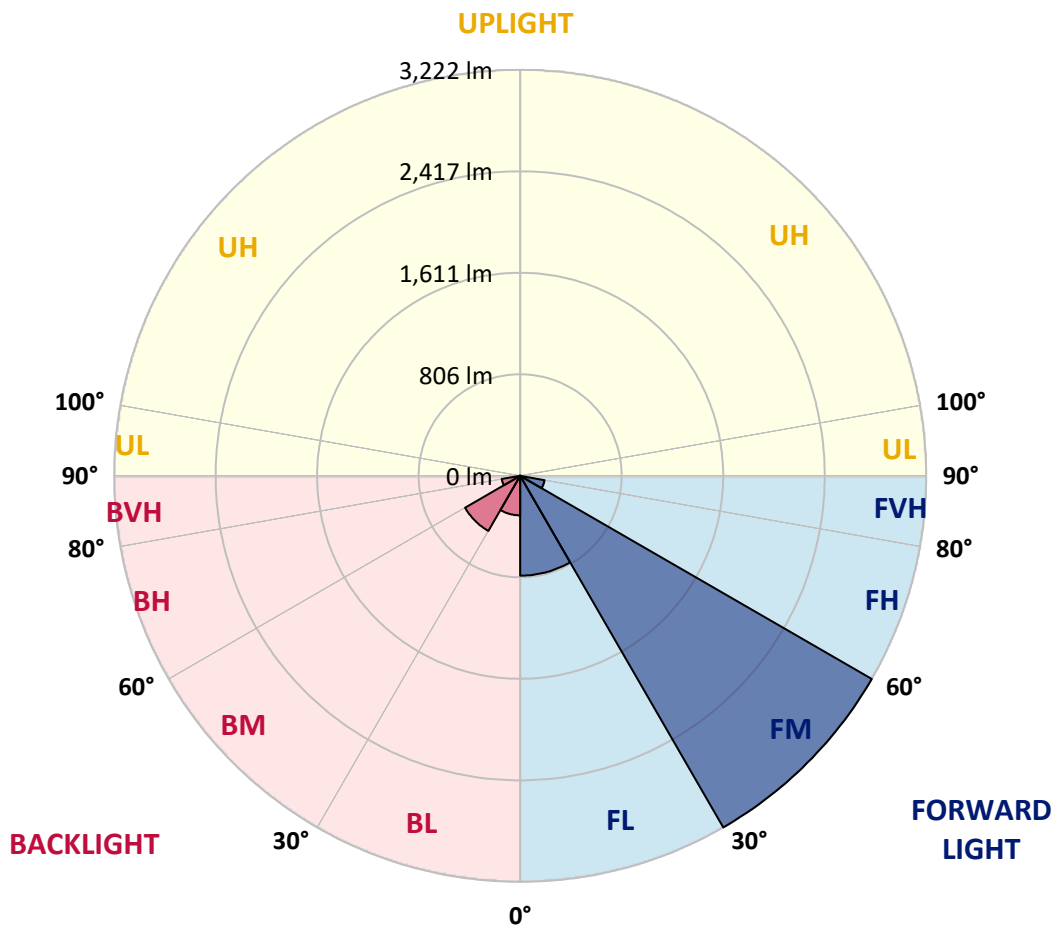
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.4	15.3			
FM (30°-60°)	3222.2	62.0			
FH (60°-80°)	196.6	3.8			G0/660
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	313.7	6.0	B1/500		
BM (30°-60°)	505.1	9.7	B1/1000		
BH (60°-80°)	148.8	2.9	B1/500		G1/500
BVH (80°-90°)	8.9	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4
2.5°	1724.2	1691.0	1694.8	1671.0	1645.3	1637.8	1611.5	1586.5	1567.7	1527.6	1490.7
5°	1884.5	1874.5	1859.4	1840.7	1821.2	1773.7	1746.7	1715.4	1646.6	1584.6	1523.2
7.5°	1907.6	1905.8	1913.9	1913.9	1920.8	1902.6	1864.4	1842.5	1769.3	1668.5	1554.5
10°	1744.9	1750.5	1789.9	1841.3	1912.7	1962.1	1955.9	1950.2	1870.1	1732.3	1591.5
12.5°	1615.3	1602.7	1625.9	1669.7	1776.8	1896.4	1977.1	1977.8	1957.1	1834.4	1618.4
15°	1542.0	1550.8	1557.0	1577.7	1658.5	1796.8	1938.9	1980.9	2071.7	1906.4	1661.0
17.5°	1589.0	1559.5	1558.3	1563.3	1604.6	1708.6	1868.2	1940.2	2134.3	1999.1	1713.6
20°	1650.3	1649.7	1632.2	1625.9	1625.3	1717.9	1821.9	1919.5	2167.5	2119.3	1766.8
22.5°	1758.0	1758.0	1729.2	1715.4	1686.0	1761.8	1828.1	1894.5	2222.6	2201.9	1792.4
25°	1938.3	1908.9	1859.4	1825.6	1808.7	1835.6	1894.5	1954.0	2270.8	2289.5	1845.7
27.5°	2104.9	2058.5	2034.1	1975.9	1953.3	1937.7	1991.5	2051.6	2327.1	2426.0	1874.5
30°	2293.9	2285.8	2242.0	2166.8	2111.1	2082.3	2131.8	2191.3	2430.4	2565.6	1940.8
32.5°	2632.0	2558.1	2498.7	2406.6	2315.8	2254.5	2303.3	2342.8	2602.0	2711.5	2013.5
35°	2997.0	2973.2	2870.5	2704.6	2565.6	2510.6	2539.4	2568.8	2801.7	2934.4	2135.5
37.5°	3355.8	3323.2	3238.7	3099.1	2930.0	2818.0	2838.6	2873.0	3025.8	3234.9	2284.5
40°	3613.7	3573.6	3531.1	3510.4	3342.6	3189.2	3177.3	3186.1	3328.8	3516.7	2449.8
42.5°	3632.5	3681.9	3695.1	3778.3	3738.9	3613.1	3539.8	3541.7	3618.1	3795.3	2617.0
45°	3593.0	3547.3	3644.4	3871.6	4001.9	4060.7	3937.4	3921.7	3797.1	3956.8	2700.3
47.5°	3179.2	3191.7	3355.8	3715.1	4091.4	4354.3	4325.5	4273.6	3892.9	3951.1	2687.1
50°	2513.1	2588.8	2740.9	3188.6	3841.0	4400.7	4570.3	4450.1	3835.9	3795.9	2553.1
52.5°	1673.5	1704.8	1805.0	2382.8	3088.4	3933.6	4288.6	4316.1	3783.4	3592.4	2383.5
55°	745.0	742.5	883.4	1244.6	1937.7	2993.3	3504.1	3671.9	3581.1	3385.2	2218.2
57.5°	315.5	326.2	383.8	537.8	952.9	1806.2	2374.1	2521.2	2754.1	2779.8	1701.7
60°	213.5	214.7	230.4	269.2	398.8	848.3	1245.3	1421.8	1588.3	1577.1	902.8
62.5°	167.8	172.2	184.1	199.7	236.7	385.0	557.2	655.5	666.1	560.3	342.5
65°	143.4	144.0	155.9	169.0	185.3	224.1	268.6	273.6	276.7	266.7	251.7
67.5°	118.3	119.6	129.0	144.0	159.0	171.5	184.1	190.3	204.7	232.9	229.1
70°	93.9	95.8	103.9	116.4	130.2	137.7	153.4	159.0	172.2	194.1	202.8
72.5°	71.4	72.0	78.9	87.7	100.2	107.7	120.8	127.1	135.9	154.6	162.8
75°	51.3	53.2	58.2	62.6	64.5	69.5	82.0	88.9	101.4	109.6	110.2
77.5°	26.9	28.2	29.4	29.4	35.7	45.1	53.2	57.0	65.7	72.0	68.9
80°	10.6	11.3	14.4	19.4	25.0	32.6	38.2	40.1	47.6	51.3	53.2
82.5°	6.3	6.9	9.4	13.8	18.2	23.2	27.5	29.4	34.4	38.8	40.1
85°	3.1	3.8	5.6	8.8	11.9	14.4	13.8	13.1	13.1	12.5	13.1
87.5°	1.3	1.3	1.9	1.9	1.9	2.5	3.1	3.1	3.1	3.8	3.8
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°	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4
2.5°	1466.3	1441.2	1418.1	1375.5	1329.2	1316.0	1262.2	1242.8	1229.0	1212.7	1207.7
5°	1473.8	1440.6	1366.1	1280.3	1212.1	1124.4	1066.8	1004.8	959.8	948.5	945.4
7.5°	1489.4	1432.5	1304.1	1174.5	1034.9	915.9	825.2	776.3	733.1	730.6	726.2
10°	1507.0	1408.0	1236.5	1033.0	854.6	744.4	689.9	668.6	658.0	655.5	654.2
12.5°	1521.4	1403.0	1160.7	895.3	726.9	660.5	644.2	642.4	646.7	648.0	650.5
15°	1527.6	1383.0	1069.3	771.9	647.4	622.9	629.8	637.3	640.5	648.6	642.4
17.5°	1539.5	1357.3	956.6	674.3	602.9	607.3	619.2	628.0	633.0	638.6	630.5
20°	1545.8	1334.2	850.8	616.1	587.3	595.4	611.7	618.6	624.8	627.3	617.9
22.5°	1540.1	1286.6	757.5	569.1	572.2	582.9	597.3	604.8	601.0	591.0	585.4
25°	1525.1	1219.6	660.5	539.0	550.9	569.7	581.0	575.4	568.5	562.8	561.0
27.5°	1524.5	1137.6	590.4	511.5	532.8	558.5	554.7	549.7	552.8	548.4	543.4
30°	1527.6	1058.1	532.8	495.8	519.6	532.2	536.5	531.5	535.3	527.2	529.7
32.5°	1511.3	980.4	495.2	477.7	504.0	503.4	517.8	521.5	512.8	495.8	498.4
35°	1518.2	917.8	463.3	469.6	486.5	486.5	497.7	493.3	470.2	460.2	462.7
37.5°	1565.8	856.5	447.6	458.3	469.6	474.6	470.8	452.0	446.4	446.4	447.6
40°	1610.9	803.9	438.3	455.8	453.9	457.0	429.5	431.4	431.4	432.0	428.9
42.5°	1651.0	768.2	430.7	440.8	443.9	427.6	410.7	408.8	413.2	412.6	410.1
45°	1665.4	738.8	420.1	423.9	426.4	399.4	391.3	387.5	392.5	394.4	396.9
47.5°	1610.3	714.3	408.2	400.7	395.7	378.1	367.5	360.6	366.9	377.5	380.0
50°	1539.5	682.4	389.4	375.0	364.4	356.9	349.3	342.5	346.8	354.4	352.5
52.5°	1435.0	632.3	365.6	350.6	332.4	334.3	327.4	323.7	326.2	326.2	324.3
55°	1286.0	519.6	325.6	314.9	299.9	304.9	306.1	301.1	296.1	300.5	296.8
57.5°	877.8	366.9	290.5	290.5	275.5	282.4	281.7	269.8	257.9	259.2	256.7
60°	507.7	292.4	268.0	265.5	249.8	255.4	256.7	248.6	230.4	231.6	229.1
62.5°	288.6	249.8	234.2	230.4	227.3	232.3	232.3	221.6	206.0	207.2	204.7
65°	245.4	231.6	209.1	208.5	207.2	208.5	203.5	192.2	178.4	172.8	173.4
67.5°	222.9	214.1	192.2	186.6	182.8	182.2	172.8	162.2	155.9	150.9	150.3
70°	195.3	188.4	172.2	164.7	160.9	152.1	142.7	135.9	127.1	124.6	127.1
72.5°	154.6	154.0	147.8	139.6	131.5	124.6	116.4	107.1	98.9	97.0	92.7
75°	107.1	108.3	109.6	108.3	101.4	92.7	83.3	75.8	65.7	60.1	58.9
77.5°	70.1	72.0	73.9	71.4	67.0	58.9	52.6	43.2	35.7	31.3	30.7
80°	51.3	53.8	55.1	53.2	48.2	41.9	35.1	27.5	21.9	18.2	18.2
82.5°	39.4	41.9	43.2	40.1	35.1	30.1	25.0	19.4	15.0	11.9	11.3
85°	13.8	13.1	15.7	16.3	19.4	18.2	15.0	11.3	8.8	6.3	5.6
87.5°	3.8	3.8	4.4	4.4	3.8	3.1	3.1	3.1	2.5	1.9	1.9
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)