

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: P526902

Luminaire Tested: **GALN-SA1D-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526902
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-SA1D-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA 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: 5193 lumens
Efficiency: N/A
Efficacy: 79.9 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

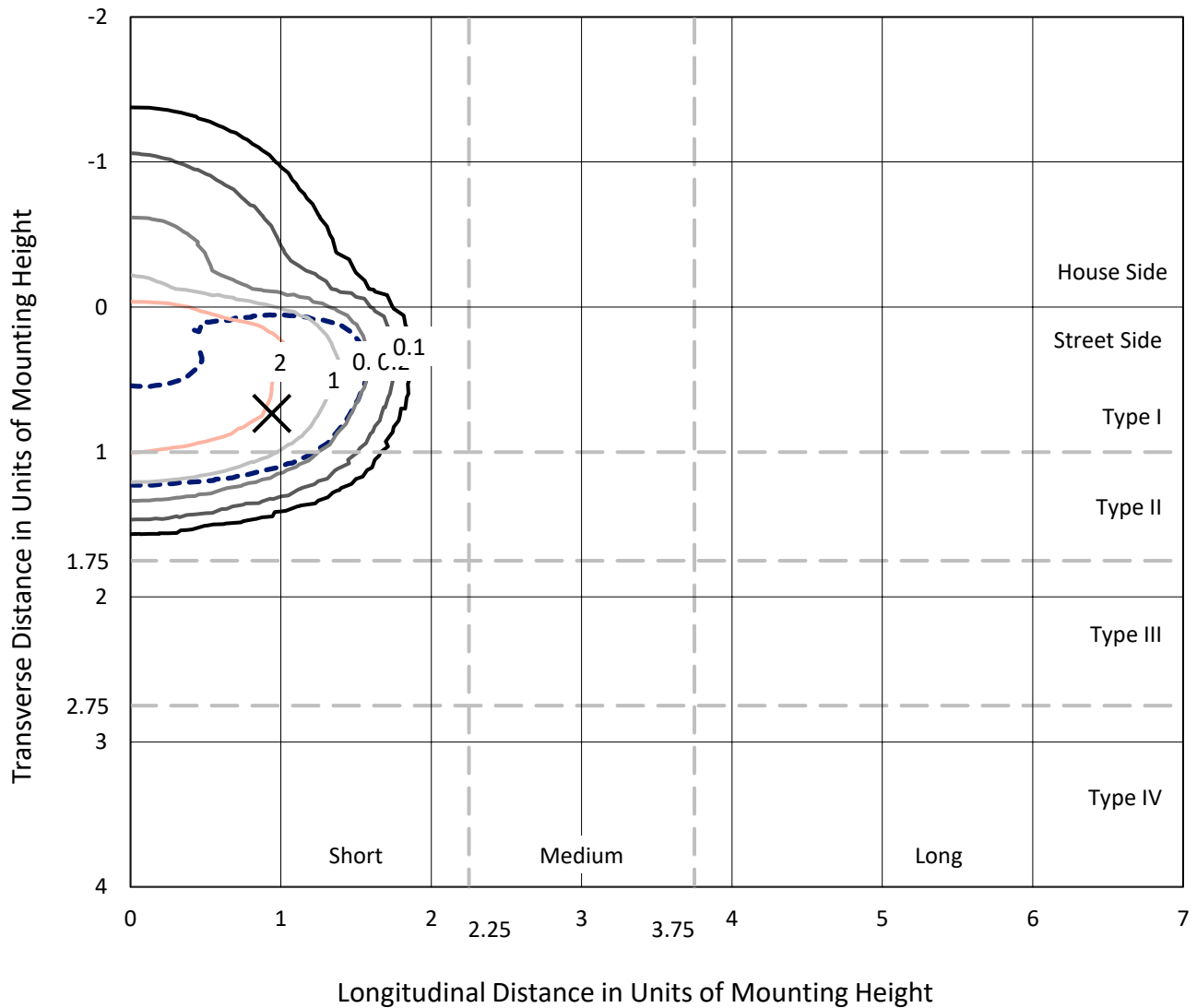
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

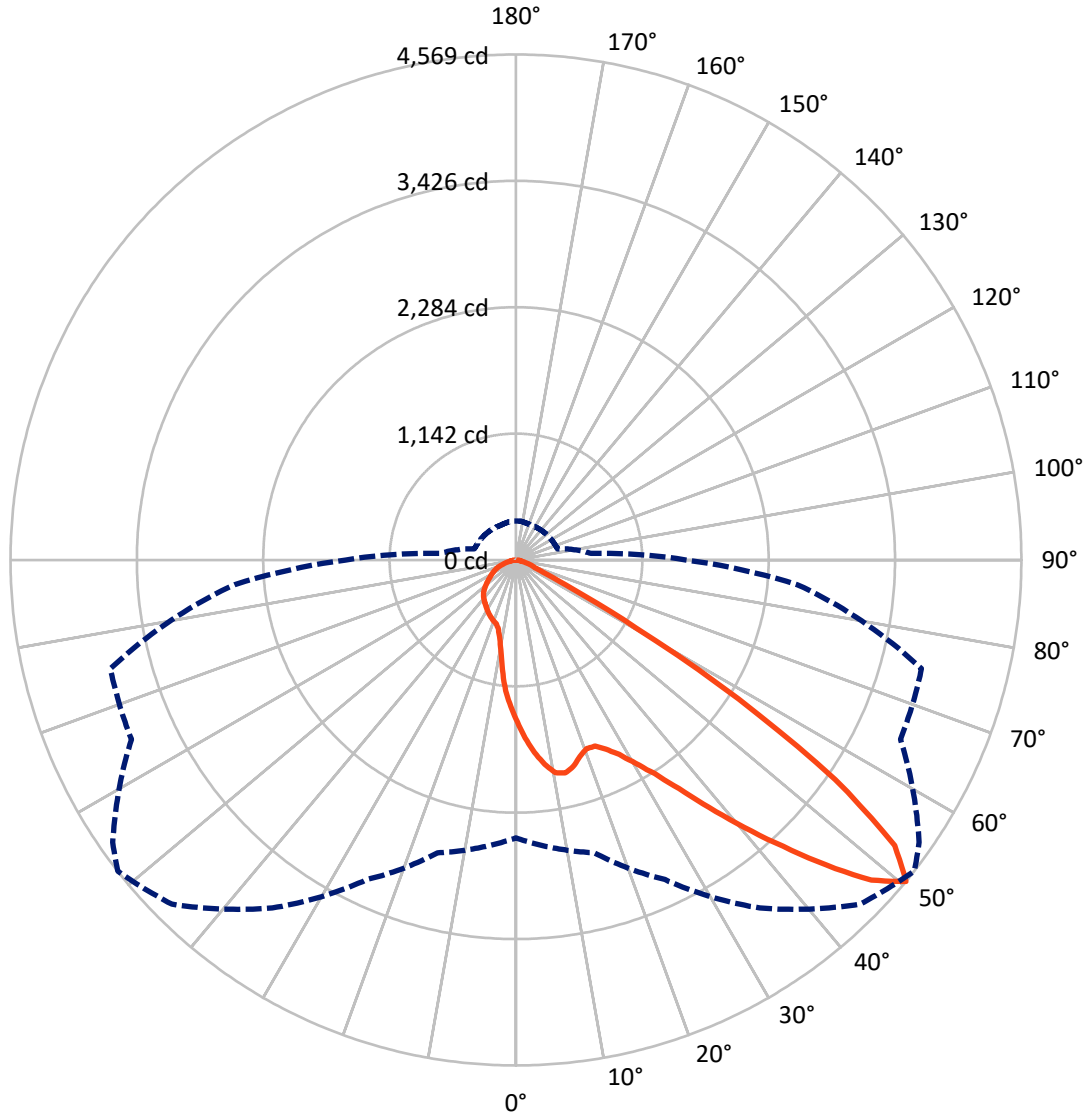
✕ Max cd
 - - - 1/2 Max cd



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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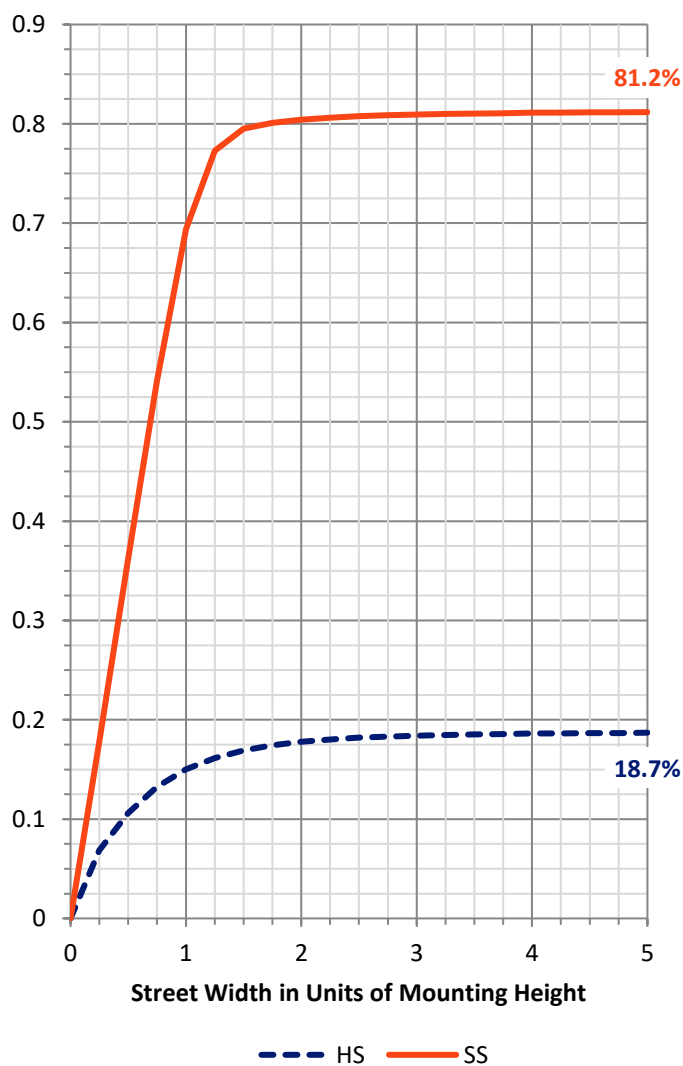
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	976.2	0.0	976.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4216.8	0.0	4216.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	5193.0	0.0	5193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	2.6
10°-20°	361.6	7.0
20°-30°	609.1	11.7
30°-40°	1022.2	19.7
40°-50°	1563.7	30.1
50°-60°	1140.0	22.0
60°-70°	253.7	4.9
70°-80°	91.5	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°	5193.0	100.0
0°-180°	5193.0	100.0

Coefficient of Utilization



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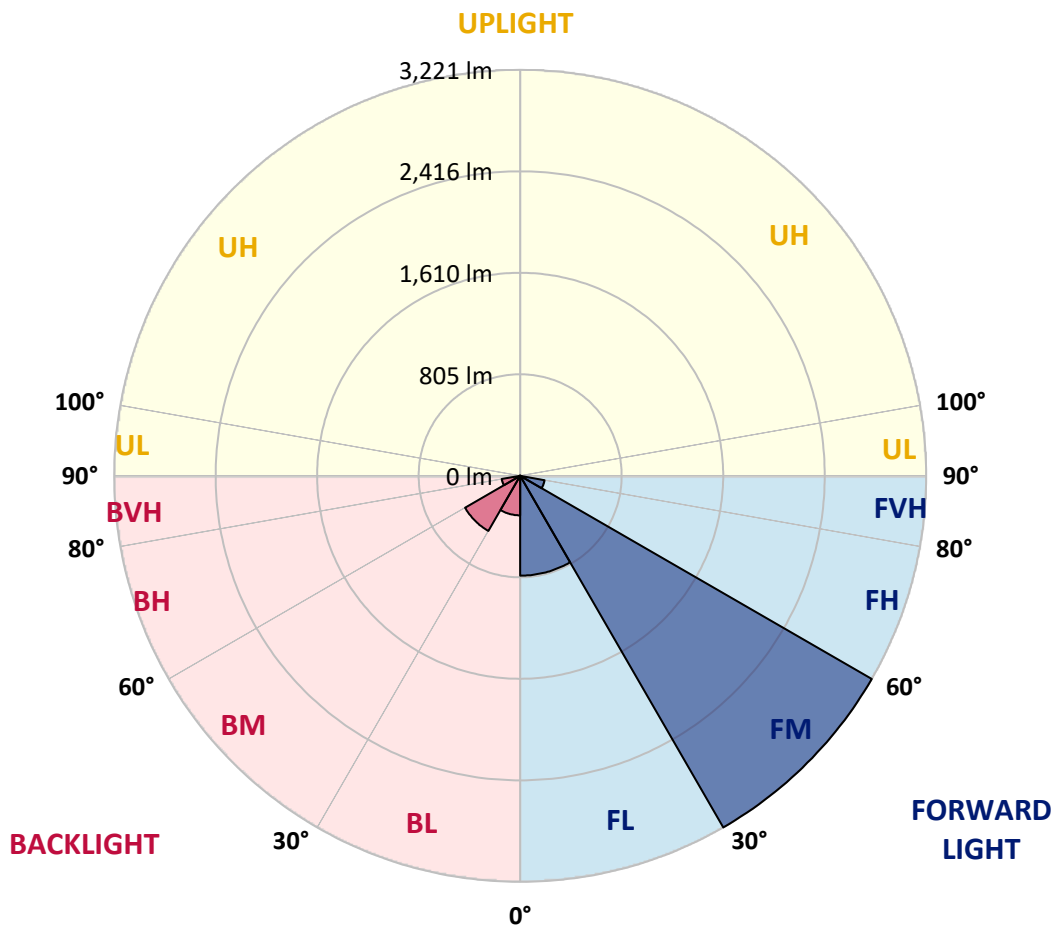
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.1	15.3			
FM (30°-60°)	3221.0	62.0			
FH (60°-80°)	196.5	3.8			G0/660
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	313.6	6.0	B1/500		
BM (30°-60°)	504.9	9.7	B1/1000		
BH (60°-80°)	148.7	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°	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8
2.5°	1723.5	1690.4	1694.1	1670.3	1644.7	1637.2	1610.9	1585.9	1567.1	1527.0	1490.1
5°	1883.8	1873.7	1858.7	1839.9	1820.5	1773.0	1746.1	1714.8	1645.9	1584.0	1522.6
7.5°	1906.9	1905.0	1913.2	1913.2	1920.1	1901.9	1863.7	1841.8	1768.6	1667.8	1553.9
10°	1744.2	1749.8	1789.3	1840.6	1911.9	1961.4	1955.1	1949.5	1869.4	1731.7	1590.9
12.5°	1614.6	1602.1	1625.3	1669.1	1776.1	1895.6	1976.4	1977.0	1956.4	1833.7	1617.8
15°	1541.4	1550.2	1556.4	1577.1	1657.8	1796.1	1938.2	1980.1	2070.9	1905.7	1660.3
17.5°	1588.4	1558.9	1557.7	1562.7	1604.0	1707.9	1867.5	1939.5	2133.5	1998.3	1712.9
20°	1649.7	1649.1	1631.5	1625.3	1624.7	1717.3	1821.2	1918.8	2166.6	2118.4	1766.1
22.5°	1757.3	1757.3	1728.5	1714.8	1685.4	1761.1	1827.4	1893.8	2221.7	2201.1	1791.8
25°	1937.6	1908.2	1858.7	1824.9	1808.0	1834.9	1893.8	1953.2	2269.9	2288.7	1845.0
27.5°	2104.0	2057.7	2033.3	1975.1	1952.6	1936.9	1990.8	2050.9	2326.2	2425.1	1873.7
30°	2293.0	2284.9	2241.1	2166.0	2110.3	2081.5	2131.0	2190.4	2429.5	2564.7	1940.1
32.5°	2631.0	2557.1	2497.7	2405.7	2315.0	2253.6	2302.4	2341.9	2601.0	2710.5	2012.7
35°	2995.9	2972.1	2869.4	2703.6	2564.7	2509.6	2538.4	2567.8	2800.6	2933.3	2134.7
37.5°	3354.5	3321.9	3237.4	3097.9	2928.9	2816.9	2837.5	2871.9	3024.6	3233.7	2283.7
40°	3612.3	3572.2	3529.7	3509.0	3341.3	3188.0	3176.1	3184.9	3327.5	3515.3	2448.9
42.5°	3631.1	3680.5	3693.7	3776.9	3737.5	3611.7	3538.5	3540.3	3616.7	3793.8	2616.0
45°	3591.6	3546.0	3643.0	3870.1	4000.3	4059.1	3935.9	3920.2	3795.7	3955.3	2699.2
47.5°	3178.0	3190.5	3354.5	3713.7	4089.8	4352.7	4323.9	4271.9	3891.4	3949.6	2686.1
50°	2512.1	2587.8	2739.9	3187.4	3839.5	4399.0	4568.6	4448.4	3834.5	3794.4	2552.1
52.5°	1672.8	1704.1	1804.3	2381.9	3087.2	3932.1	4286.9	4314.5	3781.9	3591.0	2382.5
55°	744.7	742.2	883.0	1244.2	1936.9	2992.1	3502.8	3670.5	3579.8	3383.9	2217.3
57.5°	315.4	326.1	383.6	537.6	952.5	1805.5	2373.2	2520.2	2753.0	2778.7	1701.0
60°	213.4	214.7	230.3	269.1	398.7	848.0	1244.8	1421.3	1587.7	1576.5	902.4
62.5°	167.7	172.1	184.0	199.6	236.6	384.9	557.0	655.2	665.9	560.1	342.3
65°	143.3	143.9	155.8	169.0	185.2	224.0	268.5	273.5	276.6	266.6	251.6
67.5°	118.3	119.5	128.9	143.9	159.0	171.5	184.0	190.3	204.6	232.8	229.1
70°	93.9	95.8	103.9	116.4	130.2	137.7	153.3	159.0	172.1	194.0	202.8
72.5°	71.3	72.0	78.9	87.6	100.1	107.6	120.8	127.0	135.8	154.6	162.7
75°	51.3	53.2	58.2	62.6	64.5	69.5	82.0	88.9	101.4	109.5	110.1
77.5°	26.9	28.2	29.4	29.4	35.7	45.1	53.2	57.0	65.7	72.0	68.8
80°	10.6	11.3	14.4	19.4	25.0	32.5	38.2	40.1	47.6	51.3	53.2
82.5°	6.3	6.9	9.4	13.8	18.1	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°	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8	1463.8
2.5°	1465.7	1440.7	1417.5	1375.0	1328.6	1315.5	1261.7	1242.3	1228.5	1212.2	1207.2
5°	1473.2	1440.0	1365.6	1279.8	1211.6	1124.0	1066.4	1004.5	959.4	948.1	945.0
7.5°	1488.9	1431.9	1303.6	1174.1	1034.5	915.6	824.8	776.0	732.8	730.3	726.0
10°	1506.4	1407.5	1236.0	1032.6	854.3	744.1	689.7	668.4	657.7	655.2	654.0
12.5°	1520.8	1402.5	1160.3	894.9	726.6	660.3	644.0	642.1	646.5	647.7	650.2
15°	1527.0	1382.5	1068.9	771.7	647.1	622.7	629.6	637.1	640.2	648.4	642.1
17.5°	1538.9	1356.8	956.3	674.0	602.7	607.1	618.9	627.7	632.7	638.3	630.2
20°	1545.2	1333.6	850.5	615.8	587.0	595.2	611.4	618.3	624.6	627.1	617.7
22.5°	1539.5	1286.1	757.3	568.9	572.0	582.6	597.0	604.6	600.8	590.8	585.2
25°	1524.5	1219.1	660.3	538.8	550.7	569.5	580.8	575.1	568.3	562.6	560.7
27.5°	1523.9	1137.1	590.2	511.3	532.6	558.2	554.5	549.5	552.6	548.2	543.2
30°	1527.0	1057.7	532.6	495.7	519.4	532.0	536.3	531.3	535.1	527.0	529.5
32.5°	1510.8	980.1	495.0	477.5	503.8	503.2	517.6	521.3	512.6	495.7	498.2
35°	1517.6	917.5	463.1	469.4	486.3	486.3	497.5	493.2	470.0	460.0	462.5
37.5°	1565.2	856.1	447.5	458.1	469.4	474.4	470.6	451.9	446.2	446.2	447.5
40°	1610.3	803.6	438.1	455.6	453.7	456.9	429.3	431.2	431.2	431.8	428.7
42.5°	1650.3	767.9	430.6	440.6	443.7	427.4	410.5	408.7	413.0	412.4	409.9
45°	1664.7	738.5	419.9	423.7	426.2	399.3	391.1	387.4	392.4	394.3	396.8
47.5°	1609.6	714.1	408.0	400.5	395.5	378.0	367.4	360.5	366.7	377.4	379.9
50°	1538.9	682.2	389.3	374.9	364.2	356.7	349.2	342.3	346.7	354.2	352.3
52.5°	1434.4	632.1	365.5	350.5	332.3	334.2	327.3	323.6	326.1	326.1	324.2
55°	1285.5	519.4	325.4	314.8	299.8	304.8	306.0	301.0	296.0	300.4	296.6
57.5°	877.4	366.7	290.4	290.4	275.4	282.3	281.6	269.7	257.8	259.1	256.6
60°	507.5	292.3	267.9	265.4	249.7	255.3	256.6	248.5	230.3	231.6	229.1
62.5°	288.5	249.7	234.1	230.3	227.2	232.2	232.2	221.5	205.9	207.2	204.6
65°	245.3	231.6	209.0	208.4	207.2	208.4	203.4	192.1	178.4	172.7	173.4
67.5°	222.8	214.0	192.1	186.5	182.7	182.1	172.7	162.1	155.8	150.8	150.2
70°	195.3	188.4	172.1	164.6	160.8	152.1	142.7	135.8	127.0	124.5	127.0
72.5°	154.6	154.0	147.7	139.6	131.4	124.5	116.4	107.0	98.9	97.0	92.6
75°	107.0	108.3	109.5	108.3	101.4	92.6	83.2	75.7	65.7	60.1	58.8
77.5°	70.1	72.0	73.8	71.3	67.0	58.8	52.6	43.2	35.7	31.3	30.7
80°	51.3	53.8	55.1	53.2	48.2	41.9	35.0	27.5	21.9	18.1	18.1
82.5°	39.4	41.9	43.2	40.1	35.0	30.0	25.0	19.4	15.0	11.9	11.3
85°	13.8	13.1	15.6	16.3	19.4	18.1	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)