

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: P321125

Luminaire Tested: **GAN-SA1C-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6038 lumens
Efficiency: N/A
Efficacy: 102.3 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): 59
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



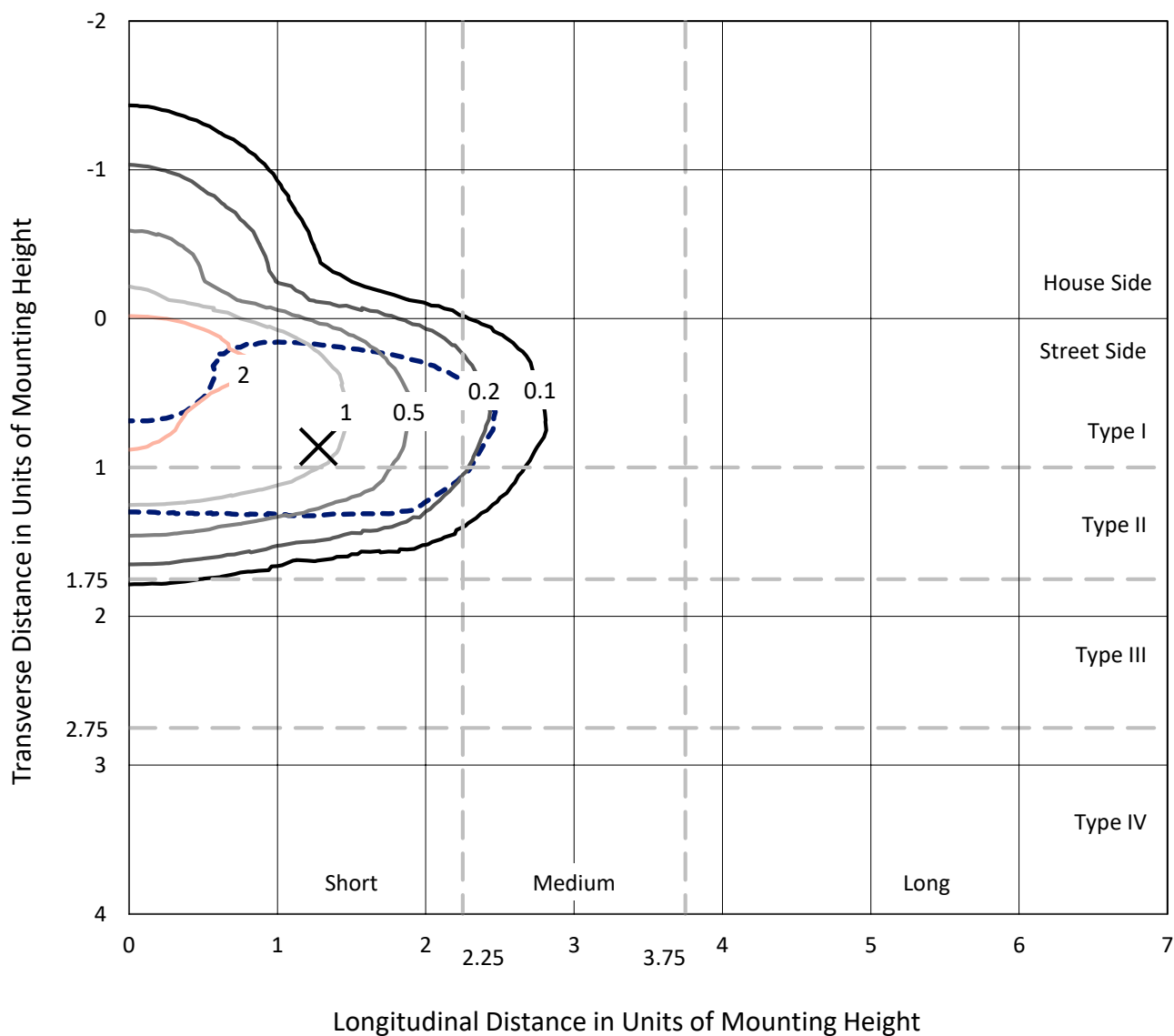
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

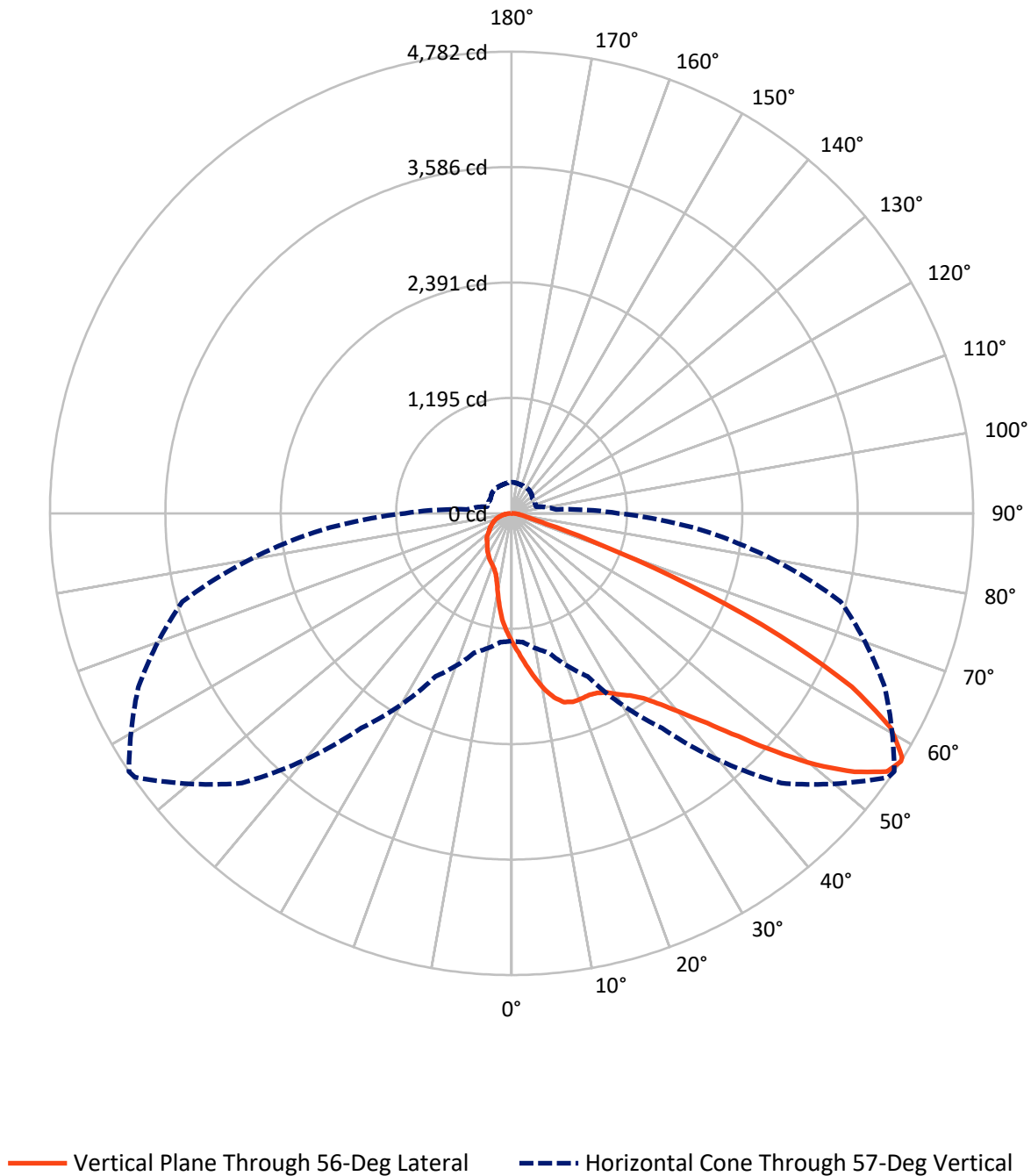


Based on 25 foot mounting height. Maximum calculated value = 3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1040.8	0.0	1040.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4997.2	0.0	4997.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	6038.0	0.0	6038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	2.1
10°-20°	361.7	6.0
20°-30°	589.1	9.8
30°-40°	880.7	14.6
40°-50°	1335.8	22.1
50°-60°	1497.2	24.8
60°-70°	884.3	14.6
70°-80°	289.7	4.8
80°-90°	71.6	1.2
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°	6038.0	100.0
0°-180°	6038.0	100.0

Coefficient of Utilization



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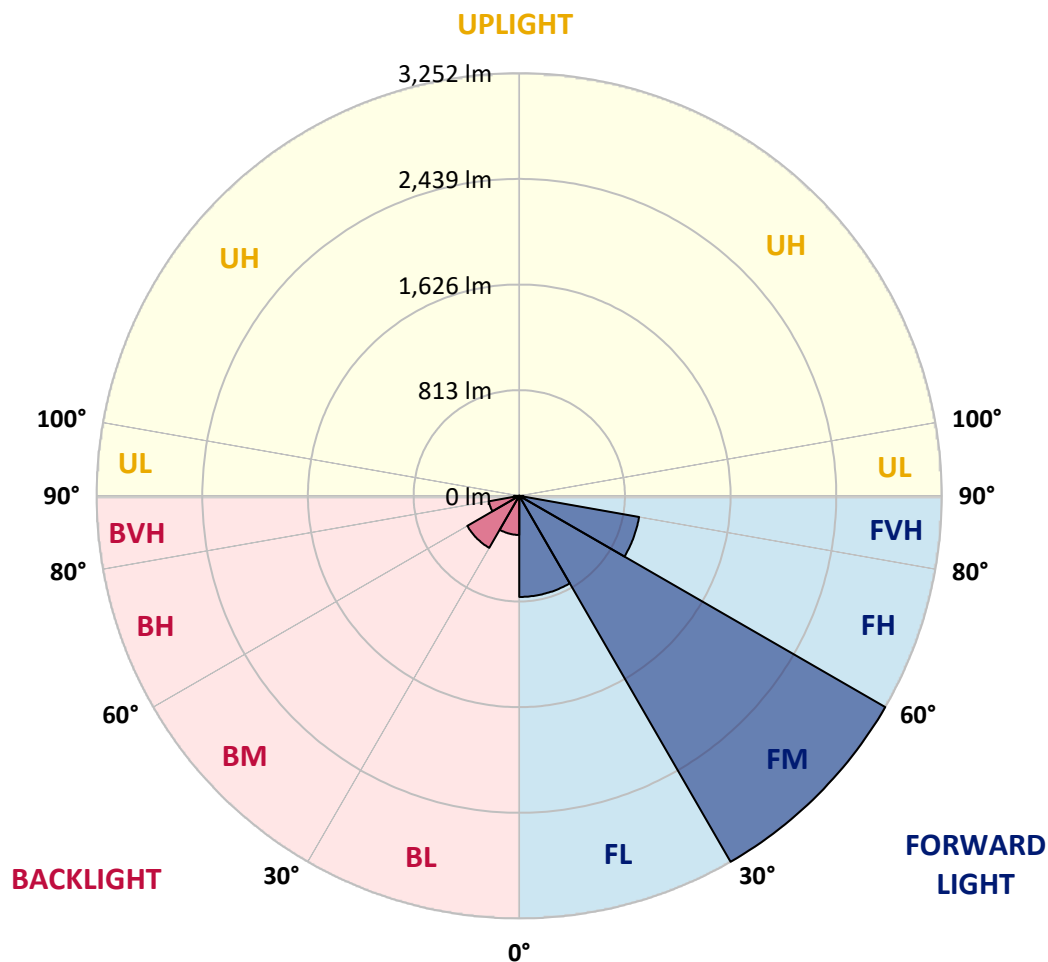
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.8	12.9			
FM	(30°-60°)	3251.7	53.9			
FH	(60°-80°)	936.2	15.5			G1/1800
FVH	(80°-90°)	31.5	0.5			G1/100
BL	(0°-30°)	301.0	5.0	B1/500		
BM	(30°-60°)	462.0	7.7	B1/1000		
BH	(60°-80°)	237.8	3.9	B1/500		G1/500
BVH	(80°-90°)	40.1	0.7			G1/100
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°	55°	56°	65°	75°	85°
0°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2
2.5°	1537.8	1551.9	1545.7	1524.1	1507.5	1484.1	1457.9	1450.0	1422.4	1391.5	1354.4
5°	1781.2	1774.2	1764.0	1730.4	1694.9	1653.6	1588.0	1577.7	1516.2	1446.3	1372.4
7.5°	1919.8	1919.2	1913.2	1893.5	1861.1	1807.2	1728.1	1715.9	1623.1	1510.6	1396.1
10°	1899.7	1898.3	1908.2	1928.8	1938.5	1927.3	1860.7	1848.4	1734.5	1581.8	1423.5
12.5°	1785.4	1786.2	1802.2	1845.3	1904.1	1974.6	1963.8	1957.8	1850.1	1662.3	1456.7
15°	1696.3	1698.2	1710.9	1748.4	1817.7	1945.8	2026.5	2028.6	1962.0	1751.1	1495.5
17.5°	1657.3	1661.3	1667.1	1693.4	1756.9	1888.3	2041.4	2052.6	2059.9	1843.3	1532.8
20°	1669.8	1673.5	1675.2	1692.0	1744.1	1853.4	2031.1	2051.2	2135.0	1930.0	1570.2
22.5°	1725.6	1727.9	1728.9	1733.3	1773.7	1863.4	2024.2	2045.4	2189.4	2007.8	1598.4
25°	1818.2	1816.5	1809.9	1804.3	1831.4	1902.8	2040.0	2060.1	2233.6	2078.4	1616.9
27.5°	1929.0	1926.9	1914.0	1898.7	1914.2	1964.2	2085.4	2101.4	2273.2	2144.4	1626.2
30°	2062.0	2056.6	2032.3	2014.0	2020.1	2056.4	2160.3	2174.9	2334.4	2219.3	1635.3
32.5°	2215.7	2209.9	2174.9	2144.6	2144.6	2174.9	2237.5	2249.6	2386.3	2303.9	1650.1
35°	2408.3	2401.0	2355.4	2304.5	2290.2	2305.6	2342.7	2351.2	2479.7	2410.6	1676.8
37.5°	2635.3	2625.6	2566.4	2498.4	2467.0	2466.2	2493.0	2510.4	2628.9	2550.6	1722.3
40°	2862.9	2856.1	2804.4	2750.9	2689.5	2669.8	2711.0	2716.4	2823.9	2724.5	1780.4
42.5°	3038.9	3037.7	3028.1	3035.2	2972.3	2932.5	2964.8	2969.2	3062.1	2912.7	1842.2
45°	3131.9	3133.9	3180.2	3282.7	3306.0	3276.9	3292.9	3294.1	3334.4	3102.6	1898.9
47.5°	3057.4	3068.2	3185.2	3414.5	3604.8	3701.3	3674.7	3690.1	3598.3	3265.7	1943.3
50°	2767.1	2780.4	2979.6	3355.8	3744.2	4111.9	4098.0	4094.5	3811.2	3385.2	1967.3
52.5°	2407.5	2417.8	2582.2	3050.5	3641.9	4338.9	4466.5	4448.3	4000.5	3474.7	1971.9
55°	1859.9	1876.0	2033.5	2441.3	3228.1	4252.2	4737.5	4721.1	4172.9	3521.6	1966.5
57°	1322.2	1339.2	1495.7	1863.2	2715.6	3951.9	4764.5	4781.9	4266.1	3529.4	1972.5
57.5°	1179.9	1197.3	1352.3	1709.2	2555.8	3843.4	4741.3	4770.3	4282.9	3528.2	1975.9
60°	594.1	600.7	699.5	954.1	1615.6	3107.2	4438.1	4513.0	4298.0	3467.2	1990.2
62.5°	369.4	364.6	361.5	439.5	786.0	2060.5	3812.5	3956.7	4008.2	3319.4	1955.5
65°	324.7	315.8	281.6	275.4	347.2	1000.8	2871.0	3050.5	3388.8	3086.6	1872.9
67.5°	305.0	296.3	257.7	234.5	234.7	396.7	1782.5	1984.6	2639.9	2693.0	1678.1
70°	284.7	276.8	240.7	213.3	199.8	219.7	820.1	973.4	1720.8	2116.8	1402.5
72.5°	258.6	253.2	218.9	190.7	176.4	164.6	314.0	370.8	996.2	1421.6	974.0
75°	231.2	226.2	196.9	169.9	152.5	129.5	176.8	190.5	506.1	727.3	479.5
77.5°	201.1	198.2	175.1	150.2	136.3	107.3	125.1	131.8	217.0	311.9	240.5
80°	160.0	165.6	153.1	133.8	121.0	85.9	88.6	93.0	126.4	152.3	136.5
82.5°	104.2	113.9	119.9	108.7	99.6	67.6	63.7	65.6	82.4	93.0	59.3
85°	43.4	48.8	78.9	71.2	66.2	49.4	42.7	43.6	51.0	52.9	24.3
87.5°	19.3	20.5	34.7	32.6	28.0	17.0	18.3	19.9	27.2	25.7	9.3
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°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2
2.5°	1340.5	1323.0	1293.2	1260.2	1233.2	1211.6	1189.8	1174.9	1157.5	1148.1	1143.3
5°	1341.5	1307.3	1244.4	1179.9	1122.2	1069.5	1019.3	980.7	944.6	925.1	919.7
7.5°	1345.9	1294.4	1192.7	1086.5	984.0	890.4	818.2	773.0	740.4	725.9	721.7
10°	1349.4	1279.3	1128.8	971.5	832.1	737.3	681.2	655.9	644.7	642.8	641.0
12.5°	1357.7	1263.7	1061.6	851.6	714.0	648.5	628.9	627.3	630.4	635.0	635.0
15°	1370.8	1248.3	984.8	748.7	638.9	615.9	619.8	628.9	637.5	644.5	645.5
17.5°	1380.3	1229.5	902.2	666.3	598.9	605.1	619.2	632.1	640.8	647.6	648.2
20°	1387.2	1200.2	814.0	603.4	575.8	595.1	612.8	624.2	630.2	637.0	638.1
22.5°	1383.6	1161.0	735.8	558.4	557.1	580.6	597.4	611.1	606.5	599.9	604.3
25°	1366.6	1107.0	655.3	524.8	537.4	561.1	581.8	572.7	557.4	554.5	556.1
27.5°	1336.3	1038.1	580.8	493.7	514.6	543.0	541.8	532.7	527.3	523.5	525.8
30°	1303.8	963.4	515.6	466.5	489.3	512.7	508.0	507.8	502.4	496.4	499.3
32.5°	1271.6	888.3	464.0	444.1	470.2	473.3	483.7	486.8	476.2	463.6	462.7
35°	1243.6	817.4	424.8	423.7	447.2	447.6	462.7	458.4	432.0	419.0	419.0
37.5°	1222.6	746.6	394.9	405.5	416.9	427.7	435.3	417.3	412.9	405.7	405.5
40°	1213.5	684.3	376.2	391.6	395.5	409.2	389.5	396.5	398.6	394.9	394.9
42.5°	1203.9	630.2	360.0	381.0	380.4	378.5	368.5	377.7	386.0	386.2	385.5
45°	1194.4	583.5	345.7	358.4	367.1	346.9	348.8	358.6	370.2	374.3	374.3
47.5°	1183.8	546.6	332.6	334.5	348.0	334.5	333.0	340.5	354.2	360.9	362.3
50°	1160.6	513.4	317.7	313.5	317.3	321.8	323.1	326.6	341.8	352.3	354.8
52.5°	1128.4	483.7	298.6	294.2	294.2	311.5	317.3	318.3	331.2	343.8	346.3
55°	1101.6	464.8	278.9	278.1	277.2	300.5	310.4	312.1	321.0	331.0	332.2
57°	1103.5	463.4	263.7	264.6	264.4	289.3	304.0	307.5	312.1	320.6	322.0
57.5°	1104.5	464.4	260.4	260.8	260.6	286.1	302.1	306.1	309.6	318.5	320.0
60°	1120.1	467.1	246.9	242.4	243.4	269.5	291.5	296.5	298.8	310.6	312.5
62.5°	1097.1	455.1	236.1	225.1	225.1	252.1	276.8	284.7	288.2	304.2	307.3
65°	1030.3	421.2	223.5	205.6	207.7	234.7	259.2	272.0	277.4	297.4	300.7
67.5°	927.1	382.0	210.0	188.2	190.3	216.4	240.9	254.8	263.3	289.9	292.6
70°	792.9	334.1	191.7	169.7	172.2	196.5	219.3	235.1	247.8	282.8	283.7
72.5°	584.5	273.9	166.2	149.4	152.1	173.3	197.5	215.8	232.8	265.2	264.8
75°	347.6	214.1	138.0	128.9	130.7	150.4	177.8	200.0	225.6	258.3	262.3
77.5°	210.8	161.2	112.5	107.9	110.2	130.3	163.7	187.4	222.4	243.6	242.4
80°	127.4	115.2	89.8	86.9	89.2	111.4	151.5	177.8	194.4	208.1	208.1
82.5°	66.6	70.3	66.0	63.7	66.8	90.5	137.8	155.2	171.8	147.5	137.8
85°	27.2	36.7	40.0	39.8	41.7	62.7	118.9	132.8	110.8	105.2	107.7
87.5°	9.1	15.6	19.5	16.8	17.6	39.4	82.4	64.1	76.2	53.1	50.4
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)