

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: P650675

Luminaire Tested: **GALN-SA1C-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6040.9 lumens
Efficiency: N/A
Efficacy: 106.0 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

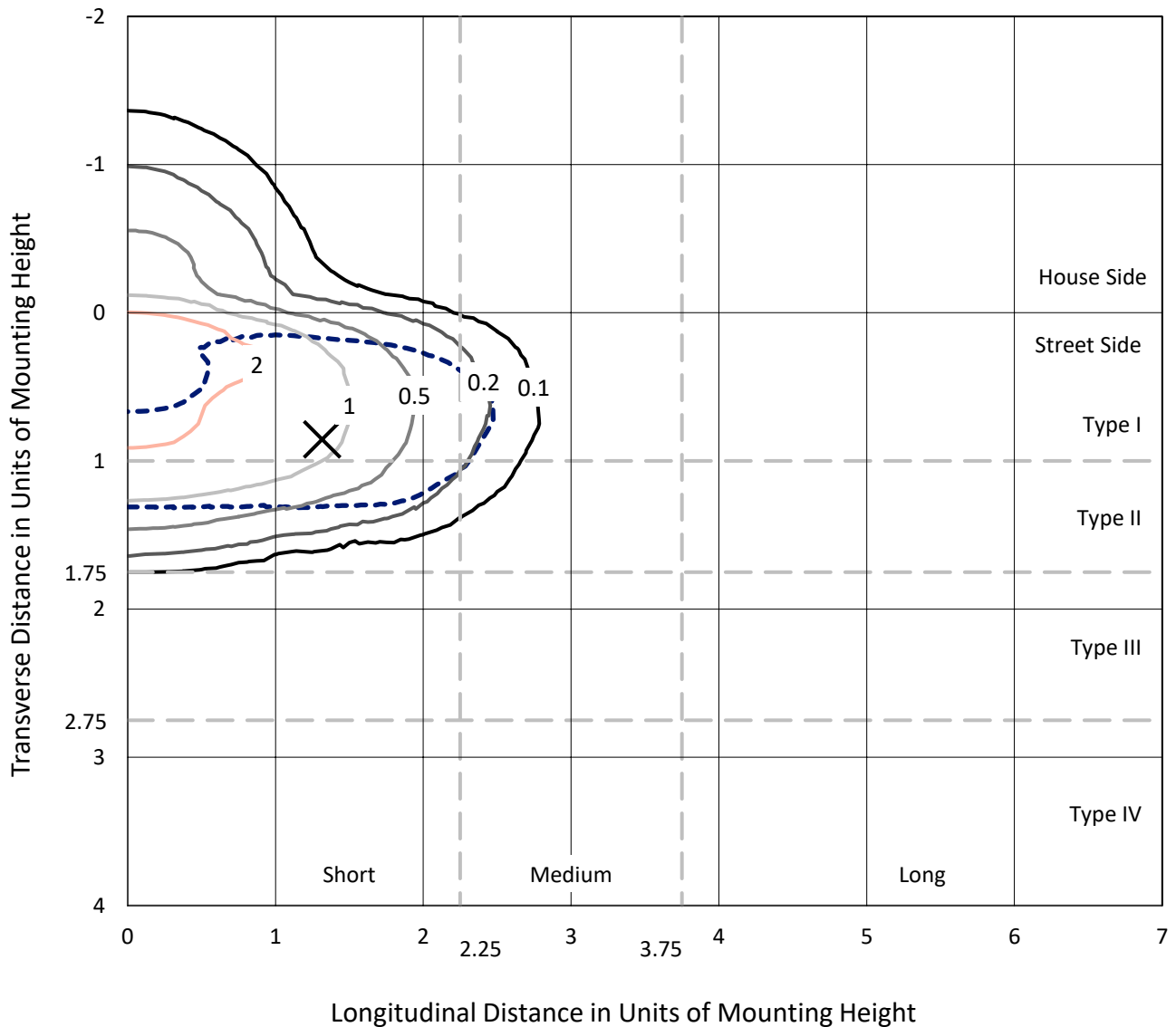
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

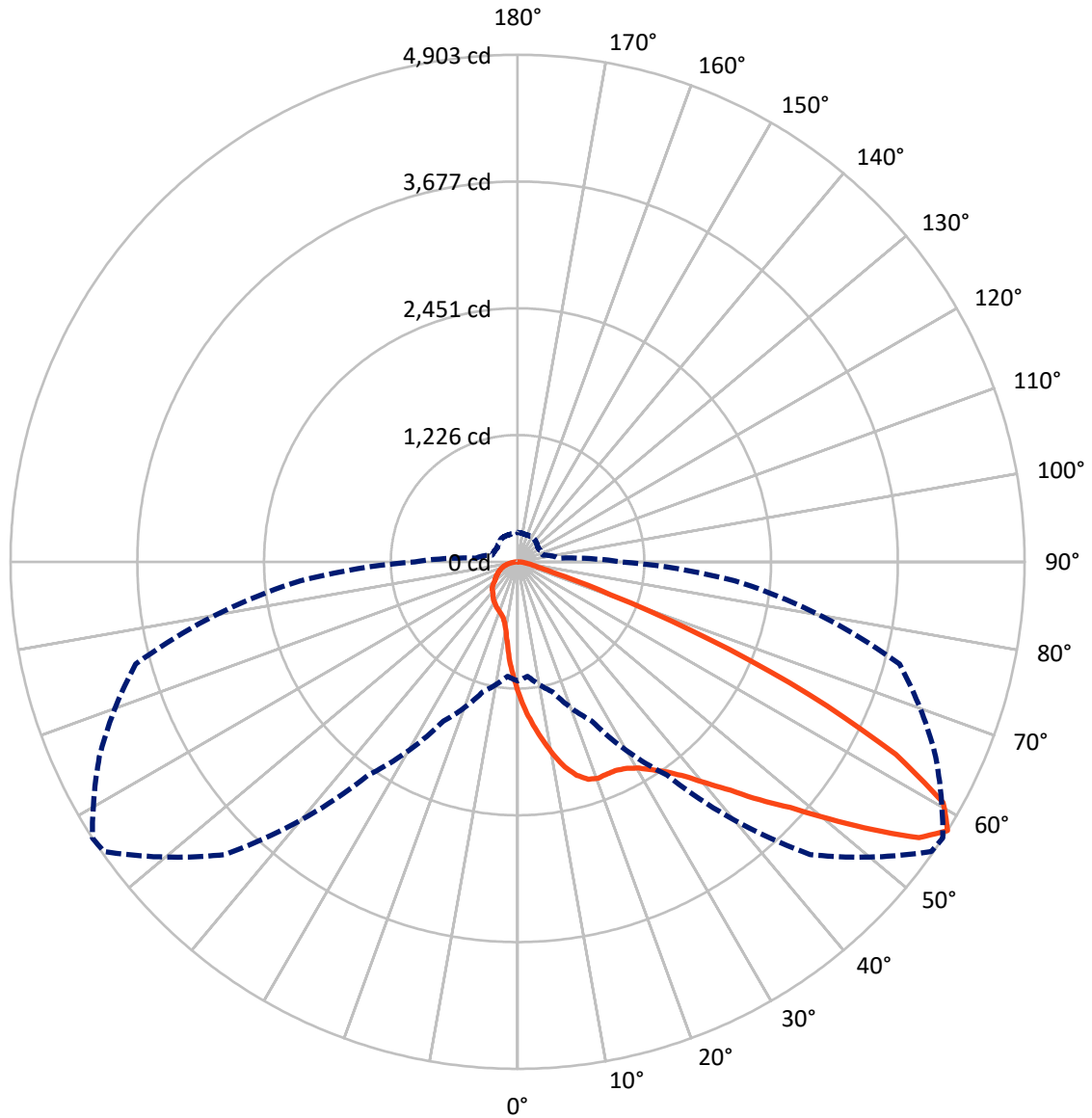
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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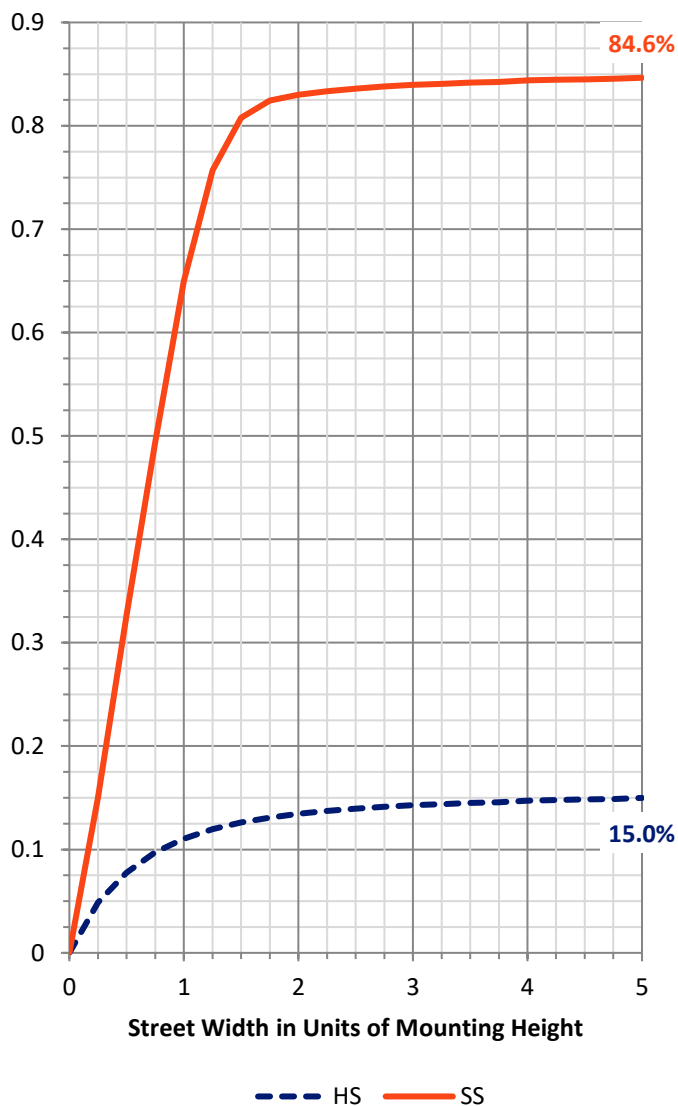
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	918.6	0.0	918.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	5122.2	0.0	5122.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	6040.9	0.0	6040.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	2.0
10°-20°	359.5	6.0
20°-30°	596.9	9.9
30°-40°	899.1	14.9
40°-50°	1349.9	22.3
50°-60°	1513.1	25.0
60°-70°	885.5	14.7
70°-80°	261.9	4.3
80°-90°	52.9	0.9
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°	6040.9	100.0
0°-180°	6040.9	100.0

Coefficient of Utilization



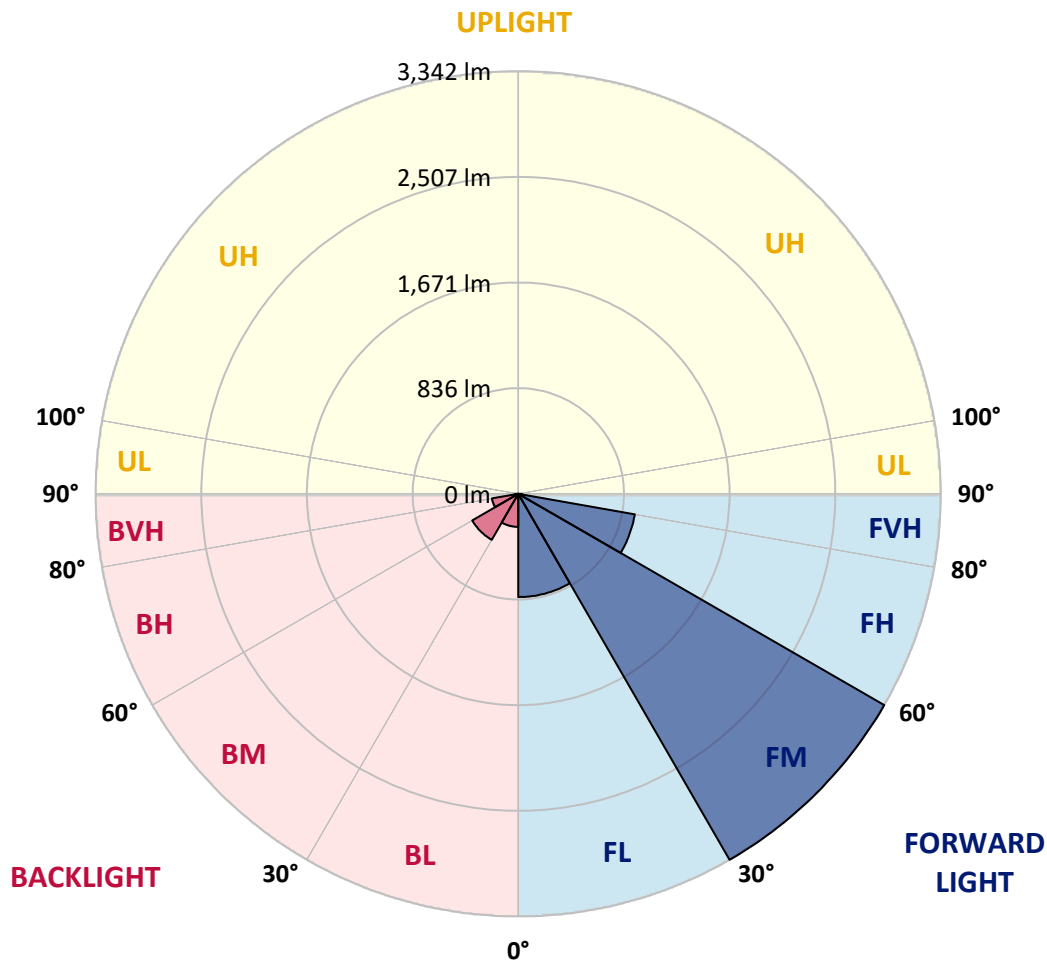
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	816.6	13.5			
FM (30°-60°)	3342.1	55.3			
FH (60°-80°)	936.1	15.5			G1/1800
FVH (80°-90°)	27.5	0.5			G1/100
BL (0°-30°)	261.8	4.3	B1/500		
BM (30°-60°)	420.0	7.0	B1/1000		
BH (60°-80°)	211.4	3.5	B1/500		G1/500
BVH (80°-90°)	25.5	0.4			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°	57°	65°	75°	85°
0°	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1577.0	1559.8	1546.3	1534.3	1518.8	1476.8	1434.8	1434.2	1400.8	1349.1	1296.2
5°	1833.9	1810.8	1813.8	1776.7	1739.7	1678.8	1589.9	1585.3	1514.1	1417.6	1319.4
7.5°	2001.2	2001.6	1992.3	1971.1	1931.1	1862.1	1761.1	1738.3	1639.4	1493.0	1345.9
10°	1992.7	2001.6	2017.1	2035.3	2047.5	2013.4	1921.5	1893.8	1765.2	1584.3	1375.3
12.5°	1878.2	1892.1	1914.3	1959.9	2033.6	2089.9	2058.4	2036.0	1910.7	1675.2	1407.7
15°	1806.8	1815.0	1827.3	1858.0	1937.4	2072.0	2153.4	2141.4	2047.8	1778.0	1444.1
17.5°	1784.9	1793.3	1797.2	1816.1	1872.6	2010.5	2190.7	2211.9	2169.5	1872.6	1480.7
20°	1806.8	1810.8	1810.8	1822.0	1866.3	1974.4	2189.0	2231.7	2269.4	1986.0	1515.1
22.5°	1864.0	1865.7	1863.3	1867.3	1900.4	1984.3	2173.5	2226.5	2350.1	2082.2	1541.9
25°	1956.9	1959.5	1944.4	1935.1	1959.3	2028.0	2182.1	2230.8	2413.2	2174.2	1559.8
27.5°	2062.4	2065.7	2047.2	2025.7	2037.0	2081.9	2215.9	2259.5	2460.5	2264.8	1571.0
30°	2191.7	2193.0	2162.0	2136.1	2128.9	2162.3	2273.4	2314.0	2519.4	2371.6	1587.9
32.5°	2323.9	2333.9	2293.9	2257.5	2245.3	2255.6	2358.3	2397.7	2589.5	2486.3	1615.0
35°	2503.8	2505.5	2457.6	2413.2	2372.9	2386.2	2467.2	2495.6	2686.4	2619.0	1653.4
37.5°	2728.4	2743.6	2677.5	2594.8	2545.2	2526.0	2598.8	2629.8	2822.3	2781.6	1711.3
40°	2977.7	2983.4	2926.8	2875.2	2784.6	2729.0	2779.3	2813.1	2989.9	2975.7	1778.4
42.5°	3134.5	3146.7	3151.0	3145.7	3077.6	2984.3	3003.5	3019.4	3188.3	3158.0	1847.2
45°	3187.4	3205.6	3267.0	3397.3	3404.6	3312.7	3268.0	3283.3	3404.6	3341.8	1912.9
47.5°	3099.8	3130.8	3244.2	3511.4	3711.5	3718.4	3583.8	3550.4	3601.7	3494.2	1960.5
50°	2873.2	2879.8	3053.4	3440.4	3855.3	4106.3	3967.1	3904.9	3788.9	3607.0	1993.3
52.5°	2522.7	2530.3	2675.8	3110.0	3766.7	4377.5	4415.5	4304.4	3979.0	3694.6	2014.8
55°	1872.6	1916.6	2076.6	2496.3	3346.8	4352.0	4771.9	4708.8	4208.8	3764.1	2048.5
57.5°	1151.4	1111.0	1300.9	1698.3	2517.1	4002.2	4882.1	4902.5	4461.8	3822.3	2105.1
60°	529.7	537.7	616.0	876.0	1534.3	3130.8	4598.3	4727.9	4601.6	3820.2	2119.3
62.5°	365.1	357.8	337.9	384.6	699.7	1980.1	3884.1	4103.7	4321.2	3701.6	2062.7
65°	326.4	319.1	280.7	267.9	321.4	863.0	2823.7	3100.7	3638.4	3401.9	1921.9
67.5°	304.9	294.9	255.2	230.2	229.5	343.5	1664.9	1998.6	2698.6	2876.2	1665.3
70°	282.4	274.4	235.1	207.3	195.4	216.0	731.8	958.0	1752.2	2072.6	1297.2
72.5°	259.9	250.6	215.3	185.5	170.0	161.7	280.4	364.7	990.0	1242.7	795.2
75°	227.2	222.5	192.4	167.9	151.1	130.6	177.9	203.0	473.5	570.7	399.1
77.5°	198.7	193.8	171.0	146.8	134.6	106.1	126.3	137.9	199.7	231.4	180.2
80°	145.5	150.5	144.1	129.6	120.0	83.3	85.0	94.6	118.7	131.3	110.1
82.5°	92.3	101.5	111.1	99.8	90.9	65.8	58.9	62.5	81.0	86.0	48.9
85°	38.7	39.4	64.5	60.8	51.9	39.0	35.4	37.3	43.3	45.3	22.8
87.5°	14.9	14.5	22.8	21.2	16.2	11.3	11.3	12.5	17.2	15.9	7.3
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°	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1273.4	1250.0	1203.3	1145.4	1103.1	1055.5	1013.5	983.4	972.2	966.9	957.0
5°	1272.4	1226.2	1129.5	1028.4	947.1	863.7	793.3	747.6	743.7	713.3	710.3
7.5°	1272.8	1202.0	1048.2	899.4	775.4	690.1	631.9	616.7	598.5	593.9	596.2
10°	1273.8	1171.3	960.9	771.8	651.8	595.8	574.1	568.1	568.8	570.7	571.0
12.5°	1275.0	1141.5	870.4	674.9	582.3	559.2	556.8	562.1	567.8	572.0	573.1
15°	1276.7	1107.4	782.0	596.9	547.6	545.6	553.2	562.1	570.1	576.3	577.3
17.5°	1274.8	1067.7	708.0	548.9	528.4	538.0	550.6	561.8	569.1	575.1	575.7
20°	1270.1	1023.4	636.6	515.2	516.5	532.0	545.6	556.2	564.1	567.1	569.4
22.5°	1252.2	970.5	574.4	489.0	502.3	523.8	540.0	546.3	537.3	531.1	532.7
25°	1221.8	901.7	516.5	467.9	489.4	512.3	528.7	513.5	506.3	503.6	504.9
27.5°	1183.8	826.4	472.9	445.7	472.9	499.3	494.7	492.1	488.7	484.4	485.4
30°	1142.8	752.6	435.8	428.6	455.0	470.2	472.2	476.5	472.9	466.3	468.9
32.5°	1104.8	683.1	407.7	414.0	442.5	440.1	455.0	459.9	443.1	420.9	421.9
35°	1072.4	618.7	386.5	399.8	420.9	421.9	436.8	419.7	401.4	390.9	391.5
37.5°	1047.9	568.4	372.6	387.5	393.5	406.0	398.1	389.2	386.9	379.6	380.0
40°	1033.3	524.4	363.7	377.9	376.9	385.6	360.1	369.0	372.3	370.0	370.4
42.5°	1018.8	493.3	354.5	364.7	364.4	347.5	342.0	349.5	358.1	359.1	358.4
45°	1007.3	469.2	344.9	344.6	351.2	324.7	323.0	327.7	339.9	345.9	345.6
47.5°	994.3	449.1	330.3	321.1	323.0	310.5	307.9	309.8	324.7	334.3	337.0
50°	978.2	428.9	312.2	299.6	291.3	297.3	298.0	298.3	313.2	324.0	326.4
52.5°	965.2	413.7	291.3	282.1	272.1	285.4	290.3	291.0	299.9	308.8	310.5
55°	972.9	405.1	270.8	264.2	255.2	273.2	282.7	284.1	286.0	292.7	293.7
57.5°	995.7	407.0	254.3	245.7	239.1	258.6	274.8	275.8	274.4	282.4	283.8
60°	1002.6	406.0	242.0	225.2	221.2	243.0	263.2	265.2	264.8	276.4	278.8
62.5°	973.5	393.5	229.8	208.0	205.4	227.2	247.0	255.0	256.6	273.2	276.1
65°	905.1	367.7	213.6	189.8	189.8	210.3	231.4	242.4	247.0	269.2	272.5
67.5°	814.8	337.3	197.0	174.3	173.6	194.1	215.0	226.1	233.5	263.6	265.5
70°	676.2	296.3	176.6	157.4	157.4	175.9	194.8	208.3	218.9	253.0	253.0
72.5°	463.3	246.3	151.8	138.3	138.5	155.8	174.9	190.2	202.7	231.8	232.5
75°	293.0	192.4	124.6	117.7	119.0	135.2	155.1	171.0	196.1	229.2	230.2
77.5°	155.8	135.2	99.2	97.6	99.2	114.1	136.2	158.0	196.7	198.7	195.4
80°	100.8	95.9	78.4	75.1	75.7	91.9	121.4	150.1	158.0	160.0	152.8
82.5°	54.9	60.8	55.6	52.2	52.2	71.7	103.5	119.3	113.5	94.3	89.9
85°	23.5	28.4	28.8	25.1	24.1	44.3	69.5	65.2	60.6	57.9	57.2
87.5°	6.6	9.3	9.3	7.0	5.3	12.2	13.9	4.0	0.0	0.3	0.7
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)