

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: P651707

Luminaire Tested: **GALN-SA1A-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P651707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3894.7 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

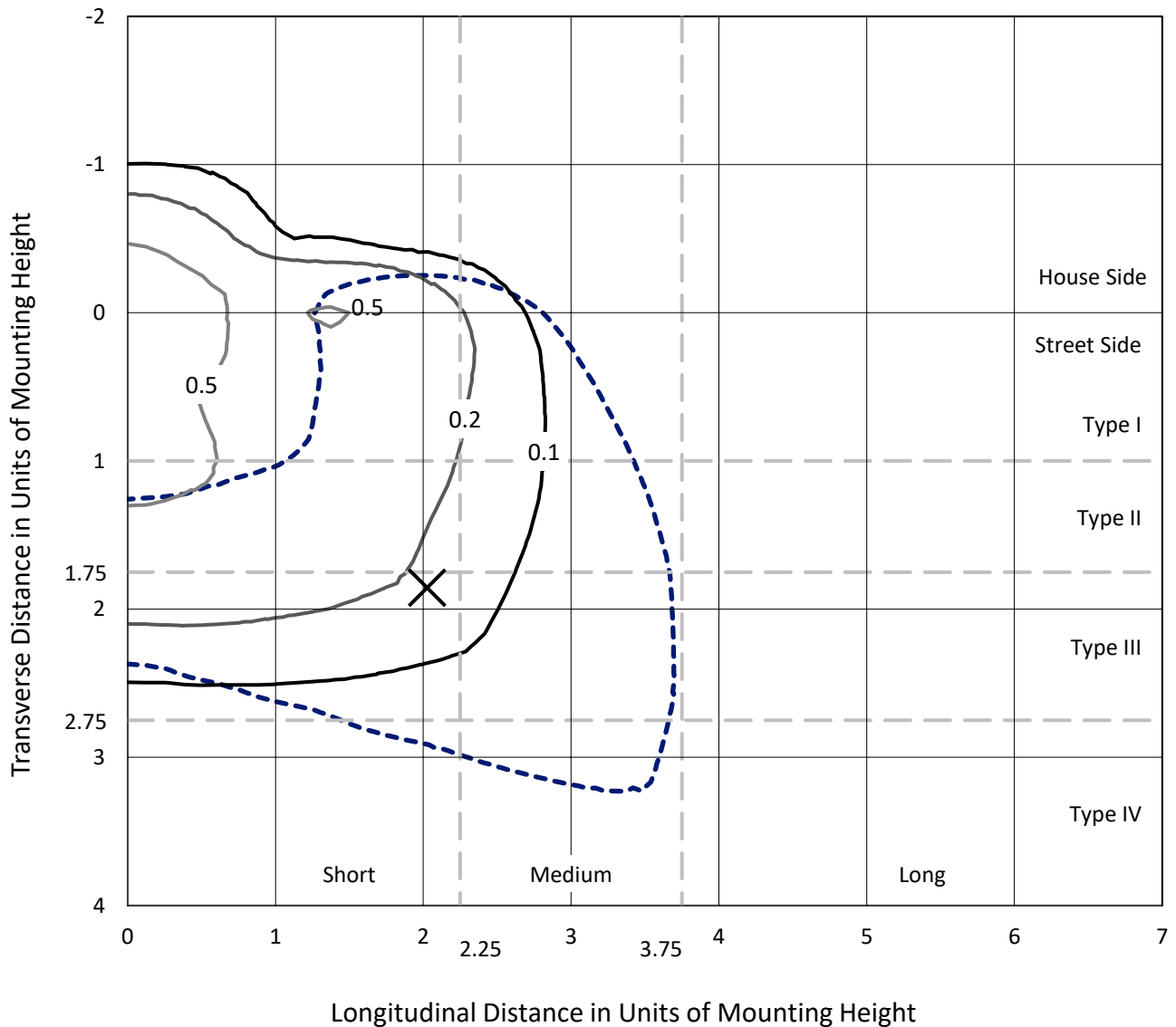
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

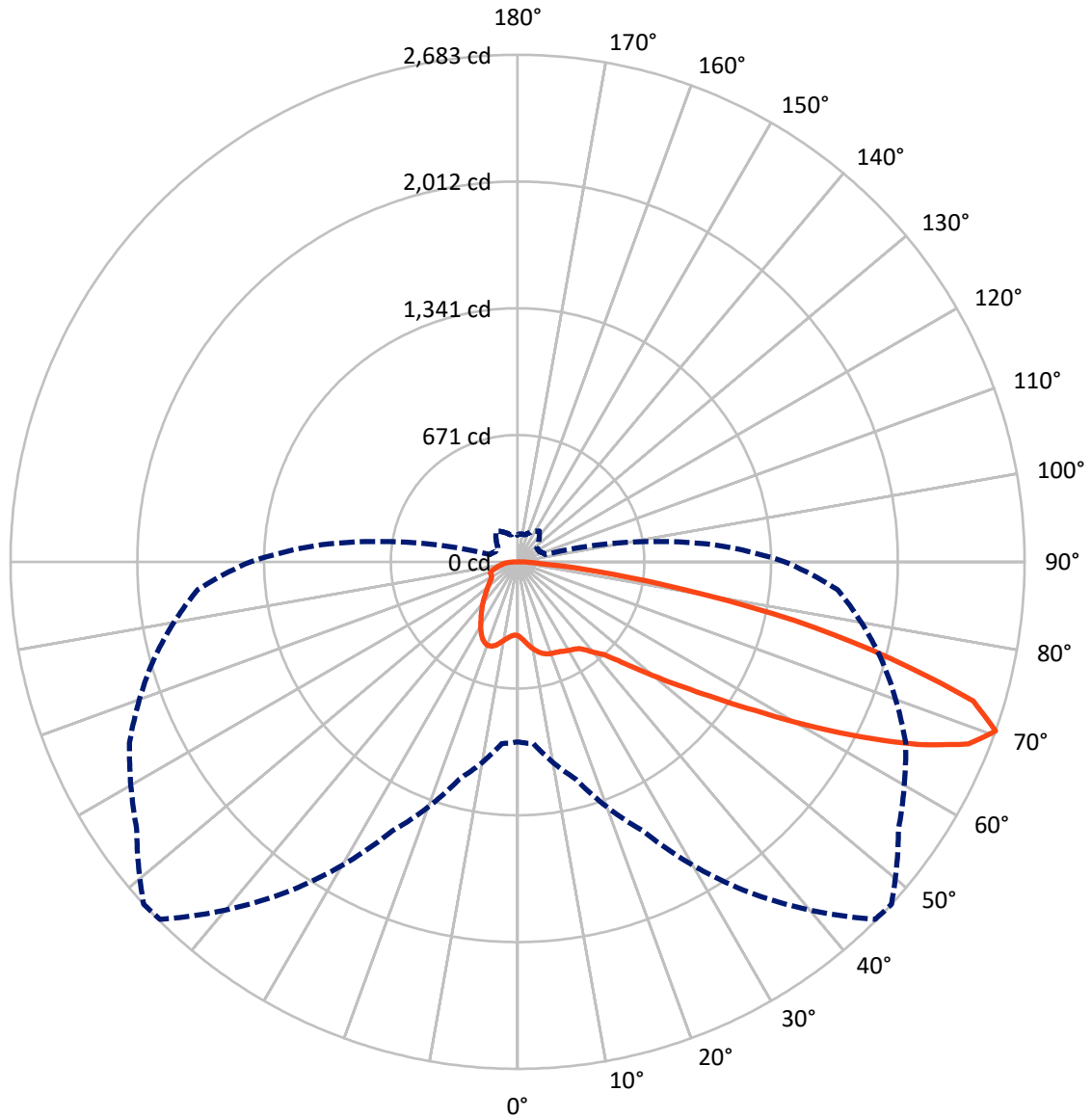
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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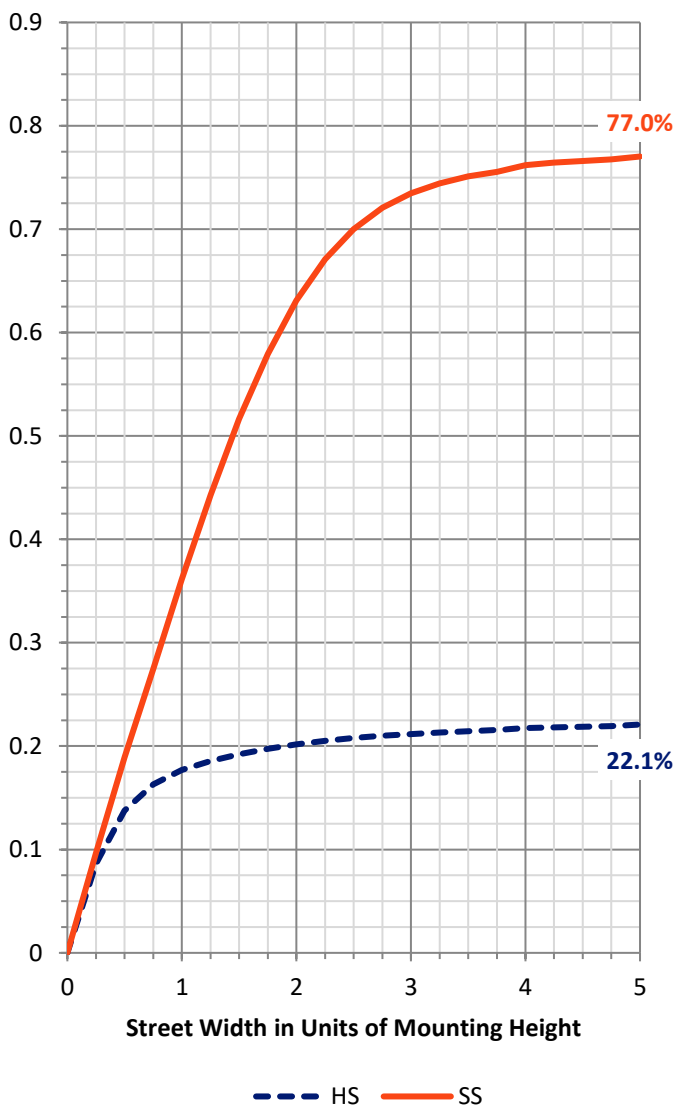
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	881.8	0.0	881.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3012.8	0.0	3012.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	3894.7	0.0	3894.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	1.0
10°-20°	134.7	3.5
20°-30°	224.1	5.8
30°-40°	317.6	8.2
40°-50°	468.8	12.0
50°-60°	812.0	20.8
60°-70°	1146.9	29.4
70°-80°	659.3	16.9
80°-90°	91.0	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°	3894.7	100.0
0°-180°	3894.7	100.0

Coefficient of Utilization

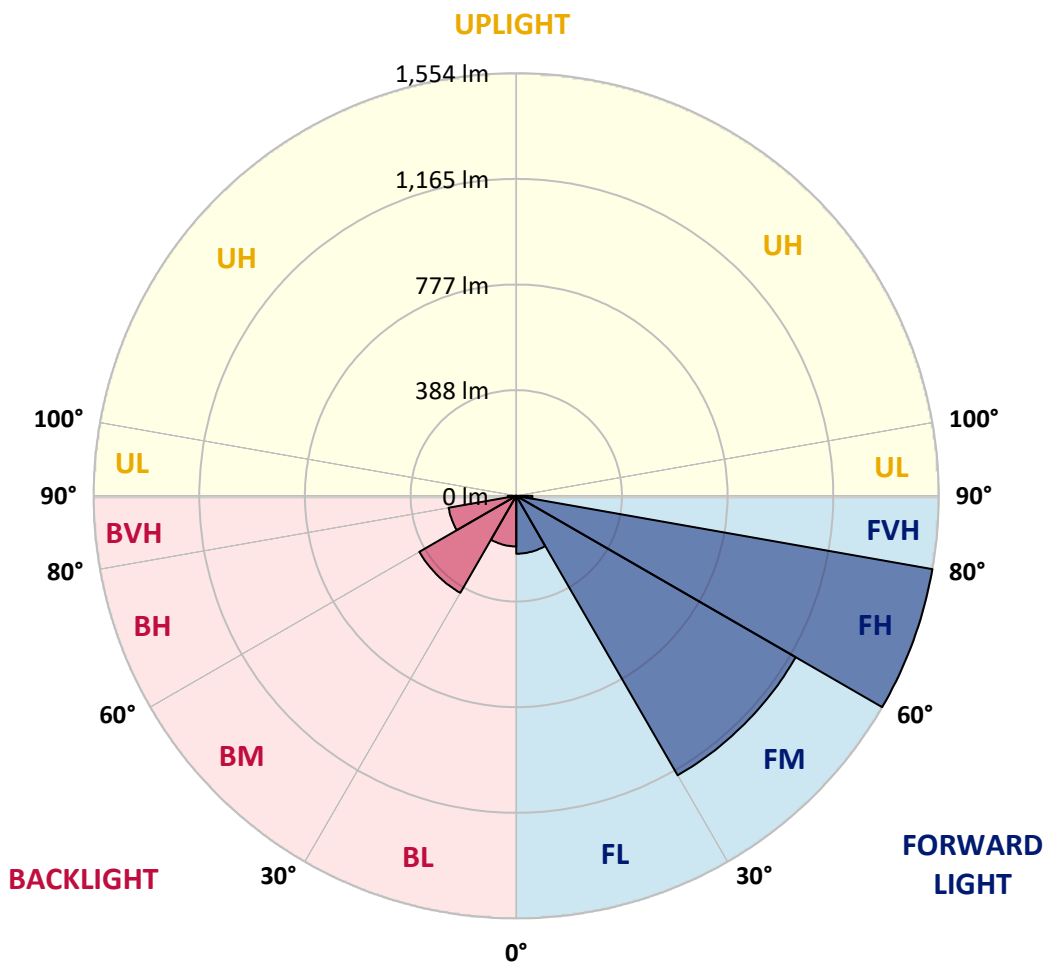


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	213.0	5.5			
FM (30°-60°)	1186.6	30.5			
FH (60°-80°)	1553.8	39.9			G1/1800
FVH (80°-90°)	59.4	1.5			G1/100
BL (0°-30°)	186.1	4.8	B1/500		
BM (30°-60°)	411.7	10.6	B1/1000		
BH (60°-80°)	252.4	6.5	B1/500		G1/500
BVH (80°-90°)	31.5	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0
2.5°	416.2	414.7	414.5	411.4	409.7	406.6	405.4	402.4	398.9	395.4	392.0
5°	448.9	448.9	447.5	443.0	436.2	429.1	426.0	420.3	410.3	402.3	395.4
7.5°	482.5	482.9	480.0	473.5	463.7	452.3	449.3	441.0	426.8	414.9	404.8
10°	511.4	511.4	507.5	498.7	486.4	473.9	471.0	461.6	445.8	431.0	417.6
12.5°	533.5	533.5	528.3	516.9	503.5	492.2	489.0	480.0	465.2	448.7	431.9
15°	547.9	546.9	541.0	528.1	515.2	505.4	503.1	495.6	482.1	465.4	446.4
17.5°	548.5	548.1	542.5	531.7	520.4	513.8	512.3	507.3	496.6	480.8	460.8
20°	536.5	537.3	533.5	525.8	520.4	517.5	516.9	515.2	507.7	492.9	472.9
22.5°	523.5	525.0	521.4	517.3	516.9	519.7	520.2	520.6	515.8	501.4	483.1
25°	520.4	521.4	517.9	514.2	516.5	524.1	525.8	527.5	523.8	511.7	495.2
27.5°	536.2	535.4	528.6	520.4	521.8	532.3	534.5	536.5	534.5	524.1	510.2
30°	581.0	578.4	564.6	540.8	533.4	540.6	542.9	548.1	548.1	540.4	526.5
32.5°	656.1	650.8	625.6	578.9	552.9	548.5	550.9	559.3	563.7	557.7	542.5
35°	747.1	741.8	705.7	642.9	588.8	564.4	563.7	573.3	585.0	571.5	551.7
37.5°	838.6	833.0	789.7	719.2	641.1	597.7	594.0	597.3	602.3	577.5	564.4
40°	930.1	923.5	885.6	804.5	705.1	641.9	632.1	617.1	615.0	597.3	589.0
42.5°	1020.8	1014.8	995.6	900.1	781.7	685.1	670.0	644.2	652.1	641.5	634.2
45°	1112.3	1112.7	1092.3	1007.4	874.3	764.6	744.5	704.0	722.8	718.8	723.0
47.5°	1193.4	1192.3	1185.1	1111.6	989.1	867.2	841.2	794.2	826.4	840.9	872.8
50°	1271.9	1271.3	1271.8	1229.8	1122.5	989.1	960.3	911.1	983.5	1034.1	1091.2
52.5°	1384.5	1388.0	1362.8	1351.7	1284.6	1133.2	1101.5	1050.6	1169.2	1249.0	1360.5
55°	1497.4	1494.5	1474.7	1486.2	1454.3	1303.6	1270.5	1230.0	1376.0	1463.3	1630.8
57.5°	1563.9	1564.9	1585.2	1641.2	1663.8	1516.2	1486.2	1454.9	1608.3	1670.2	1871.3
60°	1623.7	1628.5	1686.6	1792.5	1853.6	1777.3	1750.6	1720.2	1821.5	1846.1	2080.1
62.5°	1642.5	1657.3	1758.8	1917.1	2038.7	2072.1	2038.9	1971.8	2024.5	2015.0	2221.7
65°	1548.9	1569.1	1751.0	1963.8	2203.9	2351.7	2330.7	2206.0	2197.4	2139.8	2244.8
67.5°	1302.5	1322.8	1556.4	1865.9	2272.3	2593.9	2572.8	2376.9	2302.5	2151.4	2069.7
70°	953.0	965.8	1189.2	1571.0	2135.0	2675.1	2682.5	2460.3	2265.0	1992.8	1699.4
72.5°	549.2	577.3	733.8	1105.2	1744.1	2469.7	2520.3	2286.8	2027.8	1662.5	1188.2
75°	236.2	236.7	339.3	609.6	1181.3	1985.1	2034.1	1895.7	1592.4	1149.6	634.4
77.5°	112.4	114.4	149.2	272.1	650.3	1371.6	1503.7	1339.2	1018.5	552.3	239.7
80°	72.9	74.4	91.2	135.1	318.9	795.3	887.4	772.5	449.3	197.4	103.4
82.5°	44.2	44.6	61.1	82.5	175.5	360.1	424.5	335.3	191.7	118.2	60.9
85°	26.9	27.1	37.1	51.0	106.5	124.4	127.7	126.7	112.5	77.3	32.5
87.5°	13.0	13.4	19.2	24.1	41.9	38.5	36.5	42.3	53.2	41.7	14.0
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°	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0
2.5°	390.6	390.0	388.5	387.9	387.4	387.6	387.4	387.4	387.6	387.6	387.6
5°	392.4	391.4	389.1	389.1	390.4	393.3	395.9	398.0	400.3	400.1	400.1
7.5°	400.6	398.7	395.9	396.8	400.0	404.5	409.3	413.9	418.5	418.9	418.7
10°	412.4	410.6	407.6	408.7	413.7	420.6	426.6	433.3	438.3	439.8	439.3
12.5°	426.0	422.3	419.7	422.7	430.6	439.8	445.6	450.6	454.1	456.2	455.4
15°	439.8	436.2	433.3	439.3	448.9	457.4	460.4	461.2	461.9	463.9	463.5
17.5°	453.0	448.3	447.2	455.1	464.3	468.1	466.4	462.9	460.2	461.9	461.6
20°	465.0	461.2	460.8	468.7	472.2	468.7	461.6	455.4	450.6	451.0	450.8
22.5°	476.3	473.3	473.7	477.0	471.5	459.4	447.7	439.1	433.9	435.0	435.6
25°	488.7	485.8	486.9	481.4	462.9	441.9	425.0	417.6	415.5	417.6	419.2
27.5°	505.0	503.1	502.5	481.6	447.7	416.0	396.8	394.1	395.9	400.6	402.8
30°	522.5	522.5	519.1	478.1	426.8	384.9	368.3	368.7	375.2	381.6	383.9
32.5°	539.3	542.9	532.5	468.5	400.0	354.7	342.0	342.5	348.0	356.0	358.0
35°	553.3	563.6	544.0	451.0	368.3	329.3	319.7	314.1	314.3	320.3	322.0
37.5°	572.5	591.5	550.6	425.0	334.5	307.6	296.8	286.9	280.6	278.0	278.0
40°	605.9	633.8	552.3	386.4	302.6	286.9	271.6	259.9	247.4	236.2	234.1
42.5°	662.3	697.5	548.9	342.0	273.8	264.2	249.3	234.9	217.6	201.8	200.5
45°	762.4	780.5	540.0	295.9	248.2	242.4	227.8	212.2	193.9	179.6	178.6
47.5°	922.7	897.0	528.1	255.1	224.9	223.2	211.9	193.9	175.5	165.7	164.7
50°	1156.7	1080.4	526.5	225.5	206.1	207.0	197.8	181.1	165.1	156.9	155.7
52.5°	1438.4	1302.0	537.5	204.7	189.6	192.8	188.2	172.7	158.6	151.7	150.5
55°	1711.9	1501.2	544.1	188.4	174.3	180.1	180.7	167.8	154.8	147.9	147.2
57.5°	1933.9	1651.2	514.5	173.6	160.9	169.9	174.4	164.8	153.0	147.8	146.9
60°	2088.3	1722.1	430.3	160.5	151.1	161.7	172.2	165.1	157.5	158.2	158.6
62.5°	2137.5	1690.7	322.9	150.7	144.4	159.0	175.9	173.6	165.9	170.7	171.5
65°	2056.0	1560.6	234.1	143.0	138.6	160.9	187.1	179.9	163.0	166.5	166.5
67.5°	1783.2	1344.4	182.2	135.9	132.0	164.4	198.4	179.2	156.1	160.3	156.5
70°	1414.5	1040.0	151.7	128.0	124.8	159.2	199.5	172.7	147.9	148.8	141.7
72.5°	938.6	683.8	130.4	120.4	114.0	143.1	190.9	164.4	140.0	135.2	128.2
75°	459.9	340.9	113.8	111.1	99.8	124.6	179.2	156.5	131.5	124.0	120.0
77.5°	178.2	145.1	97.1	99.2	86.9	109.8	163.8	145.2	120.3	110.0	106.9
80°	86.5	82.3	79.6	82.8	71.5	93.6	149.6	135.5	109.8	98.6	94.0
82.5°	53.7	50.9	61.1	64.4	55.0	85.4	142.0	127.2	96.7	81.7	78.0
85°	27.3	29.2	40.9	44.0	39.4	68.0	116.9	95.5	69.8	57.9	58.4
87.5°	10.4	14.0	21.4	23.1	21.0	35.8	64.4	55.7	44.8	30.4	28.2
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)