

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: P522614

Luminaire Tested: **GALN-SA1A-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522614
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-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3873 lumens
Efficiency: N/A
Efficacy: 117.4 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

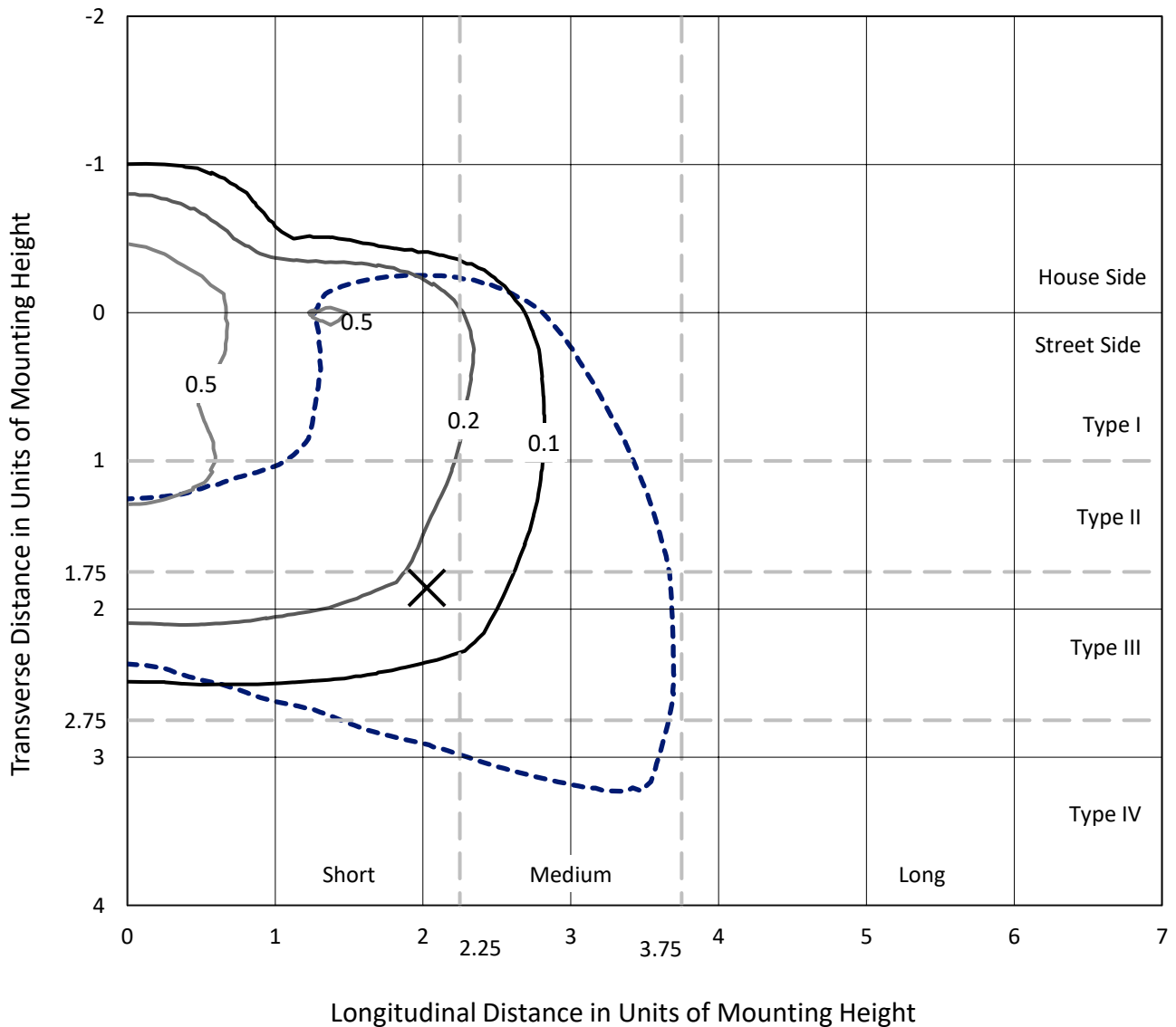
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

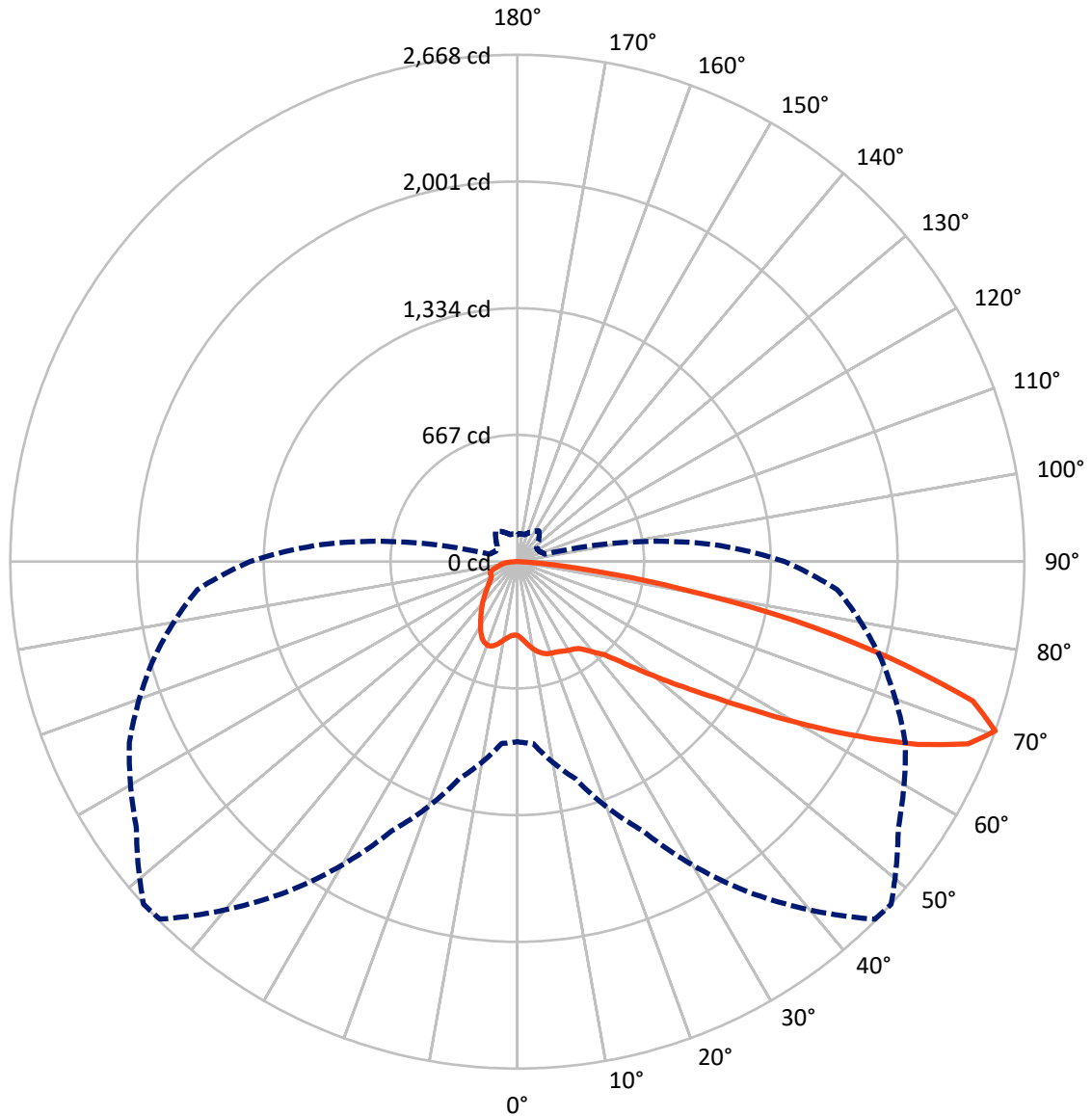
× Max cd
 - - - 1/2 Max cd



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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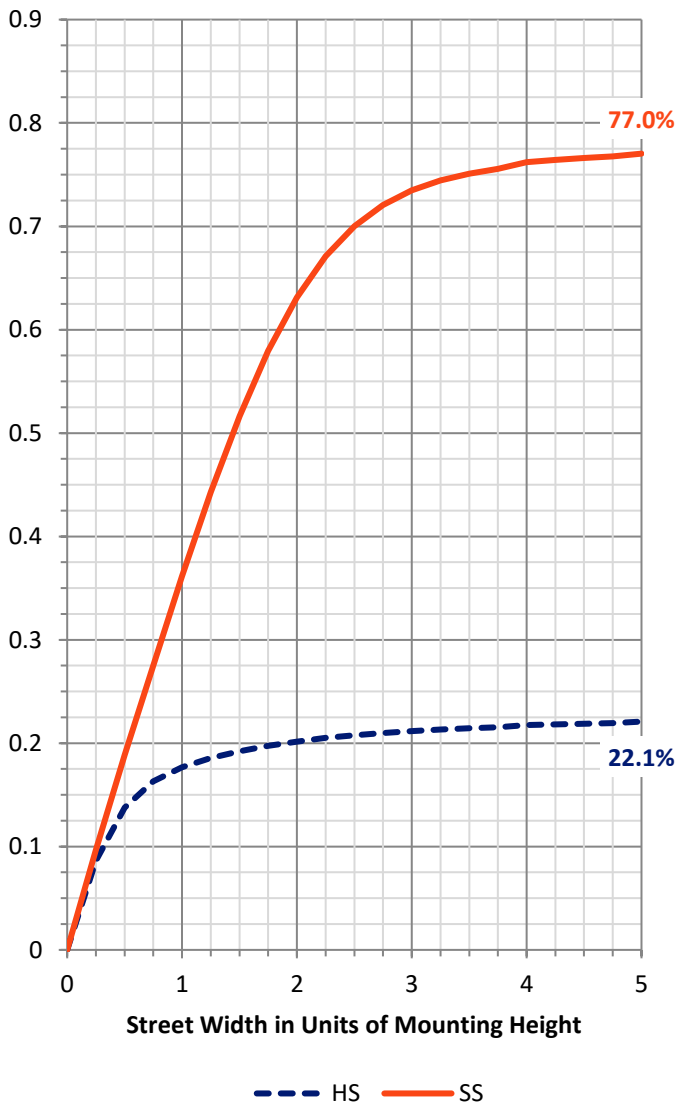
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	876.9	0.0	876.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	2996.1	0.0	2996.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	3873.0	0.0	3873.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	1.0
10°-20°	134.0	3.5
20°-30°	222.8	5.8
30°-40°	315.8	8.2
40°-50°	466.2	12.0
50°-60°	807.5	20.8
60°-70°	1140.6	29.4
70°-80°	655.7	16.9
80°-90°	90.5	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°	3873.0	100.0
0°-180°	3873.0	100.0



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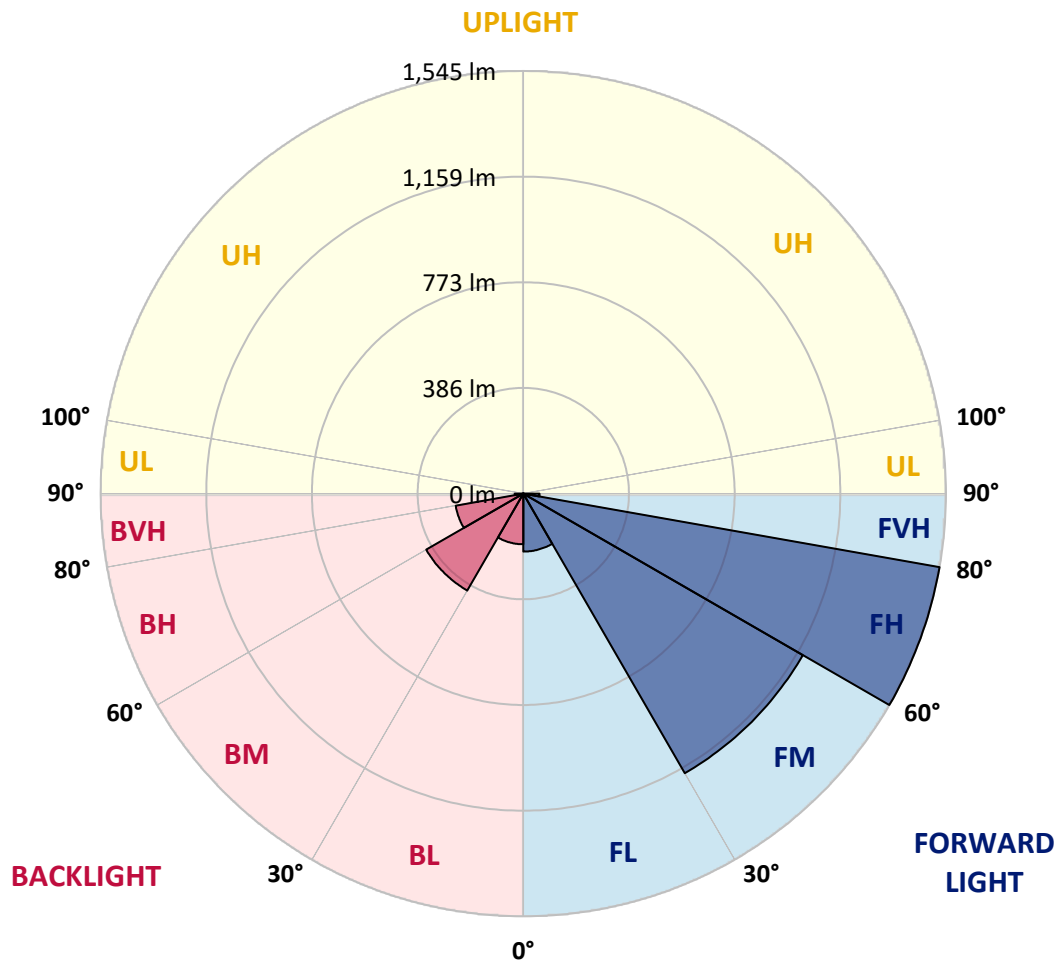
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.8	5.5			
FM (30°-60°)	1180.0	30.5			
FH (60°-80°)	1545.2	39.9			G1/1800
FVH (80°-90°)	59.1	1.5			G1/100
BL (0°-30°)	185.1	4.8	B1/500		
BM (30°-60°)	409.4	10.6	B1/1000		
BH (60°-80°)	251.0	6.5	B1/500		G1/500
BVH (80°-90°)	31.4	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°	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8
2.5°	413.9	412.4	412.2	409.1	407.5	404.3	403.1	400.2	396.7	393.2	389.8
5°	446.4	446.4	445.0	440.6	433.8	426.7	423.6	418.0	408.1	400.0	393.2
7.5°	479.8	480.2	477.3	470.9	461.1	449.7	446.8	438.5	424.4	412.6	402.5
10°	508.6	508.6	504.7	496.0	483.7	471.3	468.4	459.1	443.3	428.6	415.3
12.5°	530.6	530.6	525.4	514.0	500.7	489.5	486.2	477.3	462.6	446.2	429.4
15°	544.9	543.8	538.0	525.2	512.3	502.6	500.3	492.8	479.4	462.8	443.9
17.5°	545.5	545.1	539.5	528.7	517.5	510.9	509.4	504.4	493.9	478.1	458.2
20°	533.5	534.3	530.6	522.9	517.5	514.6	514.0	512.3	504.9	490.1	470.3
22.5°	520.6	522.1	518.5	514.4	514.0	516.9	517.3	517.7	512.9	498.6	480.4
25°	517.5	518.5	515.0	511.3	513.6	521.2	522.9	524.6	520.8	508.8	492.4
27.5°	533.3	532.4	525.6	517.5	519.0	529.3	531.6	533.5	531.6	521.2	507.4
30°	577.8	575.1	561.4	537.8	530.4	537.6	539.9	545.1	545.1	537.4	523.5
32.5°	652.4	647.2	622.2	575.7	549.8	545.5	547.8	556.3	560.6	554.6	539.5
35°	743.0	737.6	701.8	639.4	585.5	561.2	560.6	570.1	581.8	568.3	548.6
37.5°	834.0	828.4	785.3	715.2	637.5	594.4	590.7	594.0	599.0	574.3	561.2
40°	925.0	918.3	880.6	800.0	701.1	638.3	628.6	613.7	611.6	594.0	585.7
42.5°	1015.1	1009.1	990.0	895.1	777.4	681.2	666.3	640.6	648.5	637.9	630.7
45°	1106.1	1106.5	1086.2	1001.9	869.4	760.4	740.3	700.1	718.7	714.8	719.0
47.5°	1186.7	1185.7	1178.4	1105.5	983.6	862.4	836.5	789.8	821.7	836.3	868.0
50°	1264.9	1264.2	1264.6	1223.0	1116.3	983.6	955.0	906.1	978.0	1028.4	1085.2
52.5°	1376.8	1380.3	1355.2	1344.2	1277.5	1126.8	1095.3	1044.8	1162.7	1242.1	1352.9
55°	1489.1	1486.2	1466.5	1477.9	1446.2	1296.4	1263.4	1223.2	1368.3	1455.1	1621.7
57.5°	1555.2	1556.2	1576.3	1632.1	1654.5	1507.7	1477.9	1446.8	1599.4	1660.9	1860.9
60°	1614.7	1619.5	1677.3	1782.6	1843.3	1767.4	1740.9	1710.6	1811.4	1835.8	2068.6
62.5°	1633.3	1648.1	1749.0	1906.5	2027.3	2060.5	2027.5	1960.8	2013.2	2003.7	2209.3
65°	1540.3	1560.4	1741.3	1952.9	2191.7	2338.6	2317.7	2193.8	2185.3	2127.8	2232.3
67.5°	1295.3	1315.4	1547.7	1855.5	2259.7	2579.4	2558.5	2363.7	2289.7	2139.5	2058.2
70°	947.8	960.4	1182.6	1562.3	2123.1	2660.3	2667.5	2446.6	2252.4	1981.7	1689.9
72.5°	546.1	574.1	729.7	1099.1	1734.5	2455.9	2506.3	2274.2	2016.6	1653.2	1181.5
75°	234.8	235.4	337.4	606.2	1174.7	1974.1	2022.8	1885.2	1583.6	1143.2	630.9
77.5°	111.7	113.8	148.4	270.7	646.6	1363.9	1495.3	1331.8	1012.8	549.2	238.3
80°	72.5	74.0	90.8	134.3	317.1	790.9	882.5	768.3	446.8	196.3	102.8
82.5°	43.9	44.4	60.7	82.1	174.5	358.1	422.2	333.5	190.7	117.5	60.5
85°	26.7	26.9	36.9	50.8	105.9	123.7	127.0	126.0	111.9	76.9	32.3
87.5°	12.8	13.3	19.1	24.0	41.7	38.3	36.3	42.1	52.8	41.5	13.9
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°	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8
2.5°	388.4	387.8	386.3	385.7	385.3	385.5	385.3	385.3	385.5	385.5	385.5
5°	390.3	389.2	386.9	386.9	388.2	391.1	393.8	395.8	398.1	397.9	397.9
7.5°	398.3	396.5	393.8	394.6	397.7	402.3	407.0	411.6	416.2	416.6	416.4
10°	410.1	408.3	405.4	406.4	411.4	418.2	424.2	430.9	435.8	437.3	436.9
12.5°	423.6	419.9	417.4	420.3	428.2	437.3	443.1	448.1	451.6	453.7	452.8
15°	437.3	433.8	430.9	436.9	446.4	454.9	457.8	458.6	459.3	461.3	460.9
17.5°	450.6	445.8	444.8	452.6	461.8	465.5	463.8	460.3	457.6	459.3	459.1
20°	462.4	458.6	458.2	466.1	469.6	466.1	459.1	452.8	448.1	448.5	448.3
22.5°	473.6	470.7	471.1	474.4	468.8	456.8	445.2	436.7	431.5	432.5	433.2
25°	486.0	483.1	484.1	478.7	460.3	439.4	422.6	415.3	413.3	415.3	416.8
27.5°	502.2	500.3	499.7	479.0	445.2	413.7	394.6	391.9	393.8	398.3	400.6
30°	519.6	519.6	516.3	475.4	424.4	382.8	366.2	366.6	373.1	379.5	381.8
32.5°	536.4	539.9	529.5	465.9	397.7	352.7	340.1	340.5	346.1	354.0	356.1
35°	550.3	560.4	540.9	448.5	366.2	327.5	317.9	312.3	312.5	318.5	320.2
37.5°	569.3	588.2	547.6	422.6	332.6	305.9	295.1	285.4	279.0	276.5	276.5
40°	602.5	630.2	549.2	384.2	300.9	285.4	270.0	258.4	246.0	234.8	232.7
42.5°	658.6	693.7	545.9	340.1	272.3	262.8	247.9	233.6	216.4	200.6	199.4
45°	758.1	776.2	537.0	294.3	246.8	241.0	226.5	211.0	192.7	178.7	177.6
47.5°	917.5	892.0	525.2	253.7	223.6	222.0	210.8	192.7	174.5	164.8	163.7
50°	1150.2	1074.4	523.5	224.2	205.0	205.8	196.7	180.1	164.1	156.1	154.8
52.5°	1430.4	1294.7	534.5	203.5	188.6	191.7	187.1	171.8	157.7	150.9	149.6
55°	1702.4	1492.8	541.1	187.4	173.3	179.1	179.7	166.8	154.0	147.1	146.3
57.5°	1923.1	1642.0	511.7	172.6	160.0	168.9	173.5	163.9	152.1	146.9	146.1
60°	2076.7	1712.5	428.0	159.6	150.3	160.8	171.2	164.1	156.7	157.3	157.7
62.5°	2125.6	1681.2	321.0	149.8	143.6	158.1	174.9	172.6	165.0	169.7	170.6
65°	2044.5	1551.9	232.7	142.2	137.8	160.0	186.1	178.9	162.1	165.6	165.6
67.5°	1773.2	1337.0	181.1	135.1	131.2	163.5	197.3	178.2	155.2	159.4	155.6
70°	1406.6	1034.2	150.9	127.3	124.1	158.3	198.3	171.8	147.1	148.0	140.9
72.5°	933.5	680.0	129.7	119.8	113.4	142.4	189.8	163.5	139.3	134.5	127.5
75°	457.4	339.1	113.2	110.5	99.3	123.9	178.2	155.6	130.8	123.3	119.4
77.5°	177.2	144.2	96.6	98.7	86.4	109.2	162.9	144.5	119.6	109.4	106.3
80°	86.0	81.9	79.2	82.3	71.1	93.1	148.8	134.7	109.2	98.0	93.5
82.5°	53.5	50.6	60.7	64.0	54.7	85.0	141.1	126.4	96.2	81.2	77.5
85°	27.1	29.0	40.6	43.7	39.2	67.6	116.3	94.9	69.4	57.6	58.0
87.5°	10.4	13.9	21.3	23.0	20.9	35.6	64.0	55.3	44.6	30.3	28.0
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)