

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: P450447

Luminaire Tested: **GALN-SA1B-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3467 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

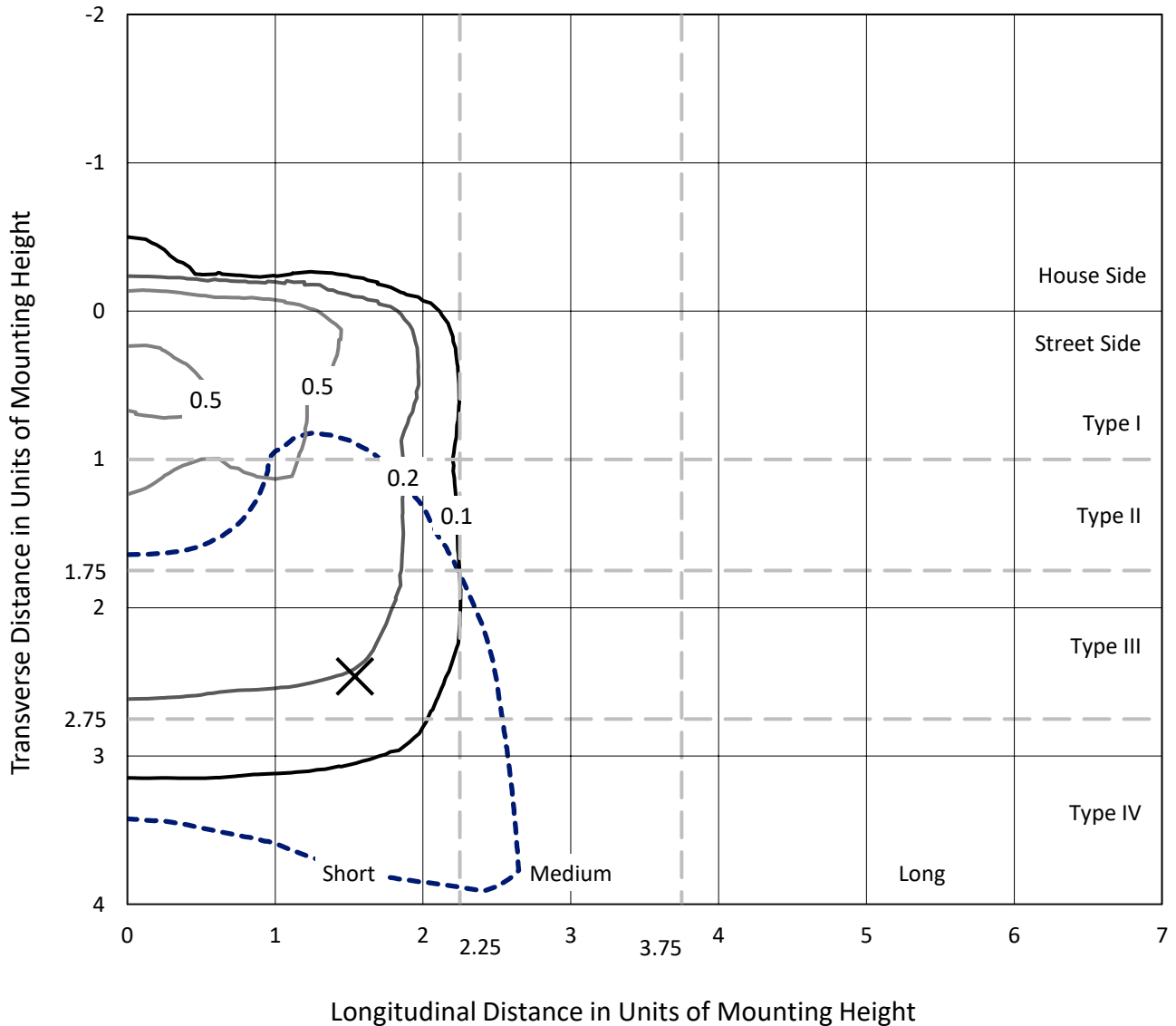
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

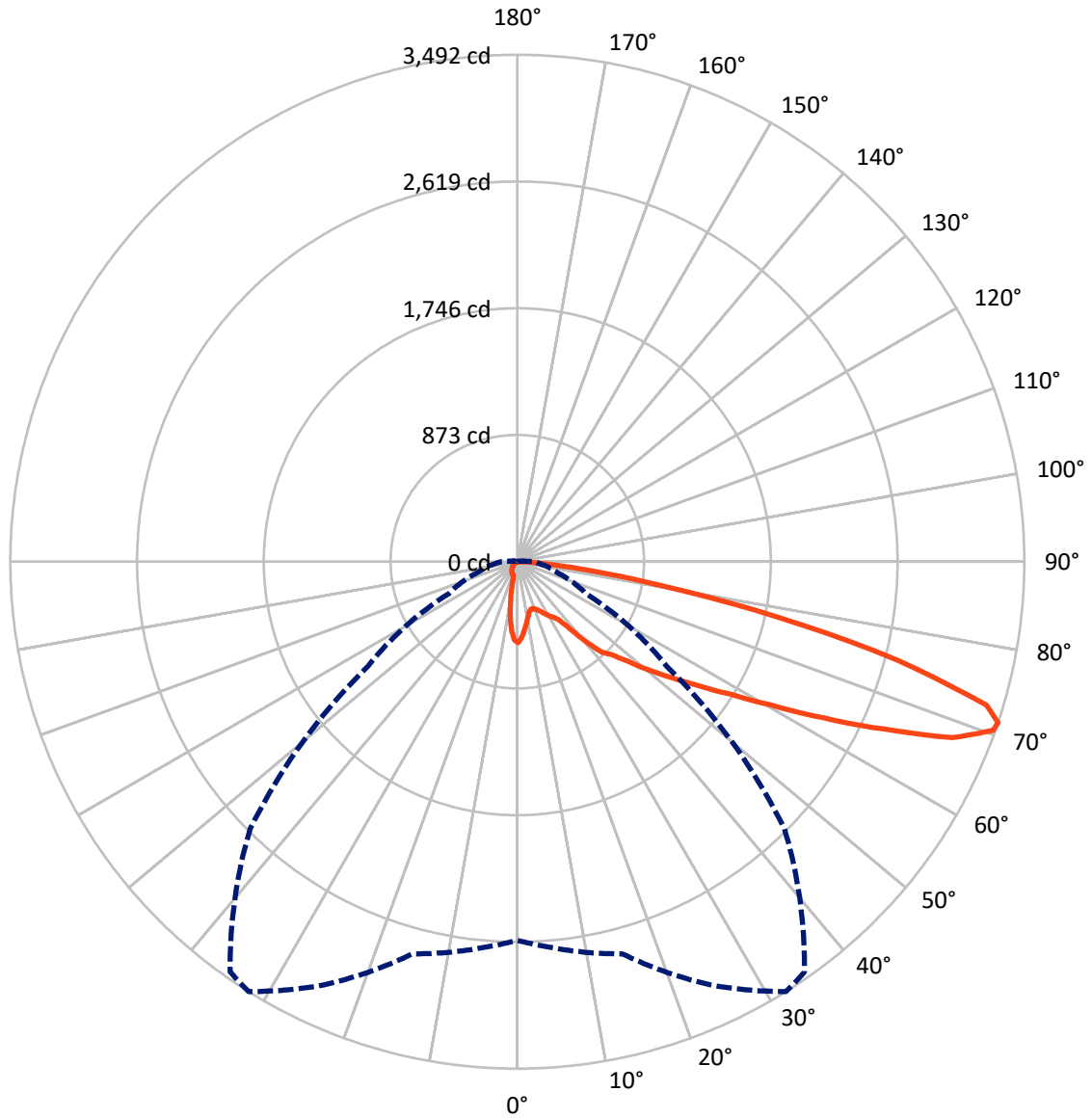
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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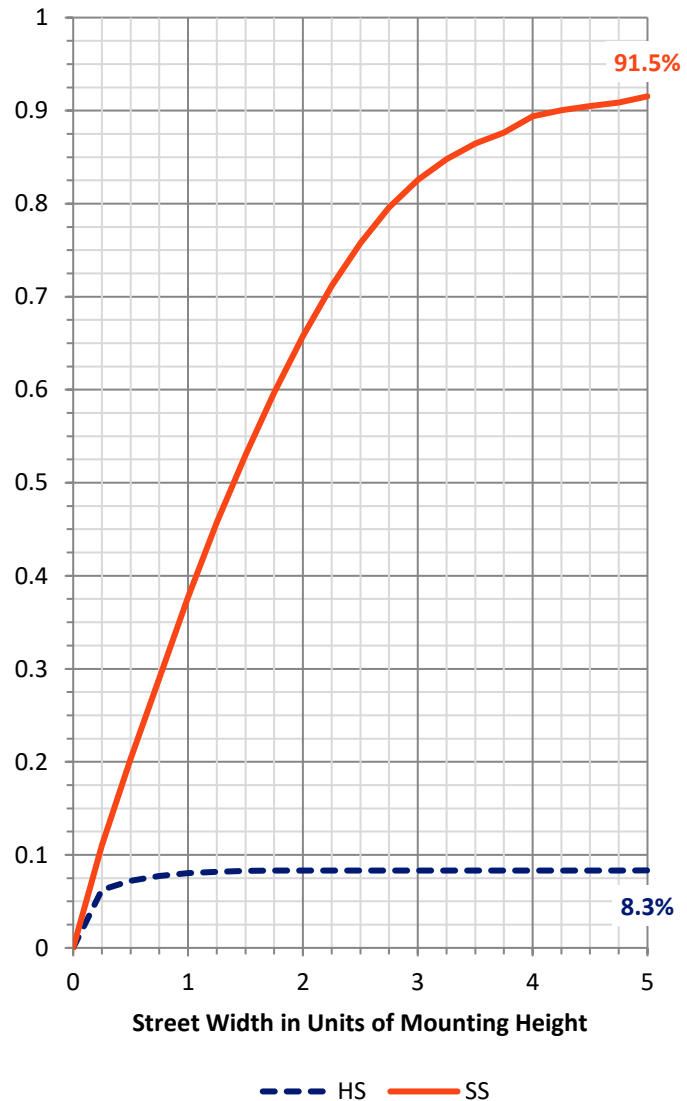
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	290.4	0.0	290.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3176.6	0.0	3176.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	3467.0	0.0	3467.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	1.3
10°-20°	98.4	2.8
20°-30°	153.1	4.4
30°-40°	255.0	7.4
40°-50°	474.4	13.7
50°-60°	761.6	22.0
60°-70°	1024.4	29.5
70°-80°	607.8	17.5
80°-90°	47.0	1.4
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°	3467.0	100.0
0°-180°	3467.0	100.0



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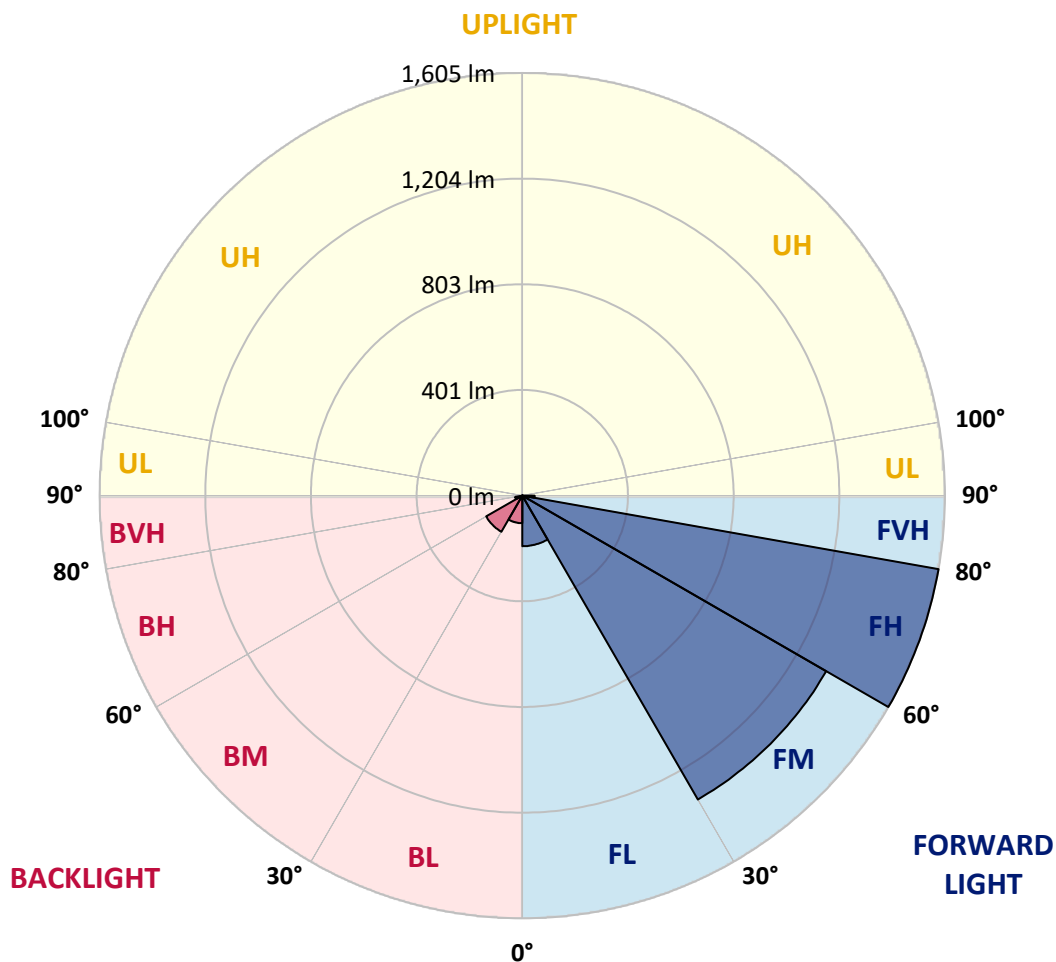
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.2	5.5			
FM (30°-60°)	1332.6	38.4			
FH (60°-80°)	1605.1	46.3			G1/1800
FVH (80°-90°)	46.8	1.3			G1/100
BL (0°-30°)	104.6	3.0	B0/110		
BM (30°-60°)	158.4	4.6	B0/220		
BH (60°-80°)	27.2	0.8	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	517.1	522.4	521.6	523.5	528.0	529.9	534.9	540.5	548.2	553.6	557.0
5°	463.1	467.1	467.6	476.9	481.4	486.5	501.4	517.6	535.7	550.1	559.7
7.5°	405.3	407.4	411.7	423.9	435.4	440.4	463.1	491.3	519.8	546.6	563.9
10°	357.7	360.1	367.8	380.8	391.5	398.1	429.5	464.9	504.9	544.8	570.1
12.5°	330.5	331.9	334.8	346.5	360.1	367.3	401.1	441.5	492.9	545.6	580.4
15°	328.7	328.1	324.7	329.5	341.7	349.2	382.2	425.5	482.2	548.2	592.7
17.5°	338.5	337.2	328.9	328.9	339.1	345.2	374.2	417.0	476.9	554.4	610.0
20°	353.7	351.6	338.0	336.9	346.8	353.2	379.0	417.6	478.0	565.8	633.1
22.5°	372.9	370.5	350.0	350.5	361.1	367.5	392.8	427.1	484.6	579.9	657.9
25°	397.9	395.2	371.0	369.9	381.1	386.7	413.3	444.2	493.9	597.5	690.3
27.5°	431.1	425.5	396.5	394.9	406.9	414.1	438.1	467.1	510.4	621.7	734.0
30°	458.5	452.4	424.7	420.5	433.3	438.9	463.6	497.9	542.9	664.0	794.4
32.5°	494.5	485.4	453.0	441.8	455.4	462.5	500.6	555.4	591.1	708.7	866.3
35°	575.4	569.8	530.1	491.0	490.2	499.3	555.2	613.4	640.6	778.4	964.2
37.5°	691.1	687.2	645.1	592.7	577.5	573.2	621.4	677.3	719.6	874.2	1078.1
40°	825.5	816.2	777.6	733.2	713.5	701.0	699.7	772.3	822.9	1004.4	1196.8
42.5°	921.9	904.9	858.0	854.8	850.6	837.5	799.7	911.2	956.2	1144.4	1323.7
45°	1023.0	997.2	927.5	915.5	913.9	913.1	950.9	1075.7	1101.5	1296.1	1454.1
47.5°	1101.5	1081.0	1023.8	1018.5	1025.1	1043.2	1150.8	1250.3	1245.0	1431.3	1563.5
50°	1206.1	1190.7	1127.1	1137.2	1171.5	1201.1	1376.2	1440.6	1362.9	1537.7	1643.1
52.5°	1329.6	1301.1	1242.0	1269.5	1322.1	1371.4	1615.4	1607.2	1445.6	1617.8	1702.5
55°	1436.6	1416.4	1396.1	1424.6	1503.4	1564.9	1831.5	1732.0	1505.8	1682.2	1728.5
57.5°	1617.6	1612.8	1592.0	1621.0	1716.6	1780.4	2025.0	1828.9	1544.4	1715.8	1697.9
60°	1885.3	1877.6	1839.0	1876.0	2000.5	2100.9	2203.3	1915.9	1553.1	1702.7	1609.8
62.5°	2207.3	2181.0	2148.0	2202.5	2373.4	2417.5	2371.2	1967.5	1520.4	1598.9	1397.5
65°	2508.0	2480.9	2481.7	2596.7	2782.7	2812.8	2567.1	1959.8	1424.6	1338.9	1030.7
67.5°	2738.2	2733.7	2766.2	2990.5	3233.8	3213.0	2742.2	1844.3	1140.6	867.9	547.7
70°	2749.9	2758.7	2851.9	3230.6	3477.6	3444.6	2727.3	1499.1	711.1	399.2	215.8
71°	2608.4	2667.4	2796.3	3223.1	3491.9	3449.1	2601.7	1255.6	521.6	278.4	155.7
72.5°	2222.7	2253.9	2532.3	3033.4	3378.3	3286.7	2283.2	880.1	334.0	170.3	89.4
75°	1224.2	1300.9	1695.8	2379.8	2702.0	2621.7	1487.9	418.1	166.6	93.1	37.0
77.5°	582.8	567.9	827.4	1415.3	1832.1	1827.8	749.7	185.8	97.1	63.1	18.6
80°	166.6	187.4	316.7	672.8	1017.2	1028.3	288.0	89.7	67.3	49.2	9.6
82.5°	50.3	51.4	116.3	297.5	505.9	476.9	108.0	45.8	48.4	39.1	5.6
85°	8.8	10.9	34.3	104.9	192.9	146.4	27.1	21.8	31.9	25.8	3.2
87.5°	0.5	0.8	11.4	12.0	17.0	9.8	4.8	3.2	6.9	6.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	559.4	561.0	559.9	557.5	553.6	548.8	542.4	537.1	532.5	530.1	533.1
5°	562.9	565.0	559.7	547.7	529.6	509.9	487.6	470.3	456.7	452.4	450.8
7.5°	568.2	569.5	555.2	528.5	490.2	443.6	402.9	368.6	342.0	334.0	322.3
10°	575.1	574.3	547.2	497.7	430.3	360.3	297.3	250.4	215.0	202.3	201.2
12.5°	585.8	581.5	537.1	455.6	359.0	267.5	189.5	148.2	125.9	118.4	116.8
15°	599.1	589.0	521.1	406.4	274.9	172.7	116.8	104.3	101.4	100.9	100.3
17.5°	614.8	598.8	500.1	346.0	193.2	112.0	97.7	97.4	97.7	97.1	96.9
20°	636.1	609.2	475.0	274.4	127.7	94.5	93.1	93.1	93.4	93.1	93.1
22.5°	658.7	621.4	444.2	209.4	96.3	89.7	89.4	90.0	90.5	90.2	90.2
25°	686.6	637.4	403.5	143.4	86.2	85.7	86.0	87.0	88.1	88.4	88.1
27.5°	727.1	657.1	359.8	98.7	79.0	79.6	82.2	84.9	86.5	86.8	86.8
30°	772.6	678.9	302.9	80.1	73.2	73.2	76.4	81.4	84.9	85.4	85.7
32.5°	831.1	704.2	239.8	72.1	67.6	67.1	70.0	76.1	82.5	84.4	84.4
35°	903.5	734.0	178.3	67.1	63.6	62.3	63.9	68.9	77.2	82.5	83.0
37.5°	988.4	762.2	130.4	62.5	59.9	58.0	59.1	63.1	69.7	77.7	79.8
40°	1066.9	787.2	97.4	58.8	56.2	54.8	55.6	57.5	63.1	70.5	71.9
42.5°	1152.6	806.6	77.4	54.8	52.4	51.9	51.9	52.7	56.4	60.7	60.9
45°	1238.0	813.6	64.9	50.0	48.4	49.0	48.7	48.2	49.8	49.2	49.2
47.5°	1299.0	805.3	53.8	45.5	45.5	46.3	45.0	43.1	42.3	39.1	39.4
50°	1340.8	775.2	44.2	40.2	42.3	43.4	40.7	37.8	34.9	31.4	30.6
52.5°	1358.1	721.8	36.2	33.3	37.5	38.9	35.7	32.2	27.7	24.8	24.0
55°	1346.9	655.8	30.1	27.1	31.7	33.3	30.1	26.1	21.0	17.8	17.3
57.5°	1297.7	577.0	25.5	21.6	25.3	26.3	24.2	20.0	14.9	11.7	11.7
60°	1212.5	495.5	20.8	17.0	18.9	20.5	18.4	14.4	10.1	7.2	6.7
62.5°	1039.8	402.4	16.8	13.3	13.3	14.6	12.8	10.4	6.4	3.7	3.5
65°	750.8	276.0	13.3	9.8	9.6	9.6	8.0	6.9	3.7	1.6	1.1
67.5°	408.0	155.7	10.6	7.5	6.7	6.4	5.1	4.0	1.6	0.3	0.0
70°	160.5	59.9	8.3	5.1	4.3	4.0	2.7	1.9	1.1	0.0	0.0
71°	108.8	41.3	7.2	4.3	3.5	2.9	2.1	1.6	0.8	0.0	0.0
72.5°	62.3	25.5	5.6	3.2	2.7	2.1	1.6	1.1	0.8	0.0	0.0
75°	27.1	13.0	3.5	2.4	1.9	1.3	1.1	0.8	0.3	0.0	0.0
77.5°	13.8	7.2	2.4	1.9	1.1	0.8	0.5	0.3	0.0	0.0	0.0
80°	7.7	3.7	1.6	1.1	0.8	0.5	0.3	0.3	0.0	0.0	0.0
82.5°	4.3	2.1	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.5	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0
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)