

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: P650716

Luminaire Tested: **GALN-SA1C-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4327.8 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

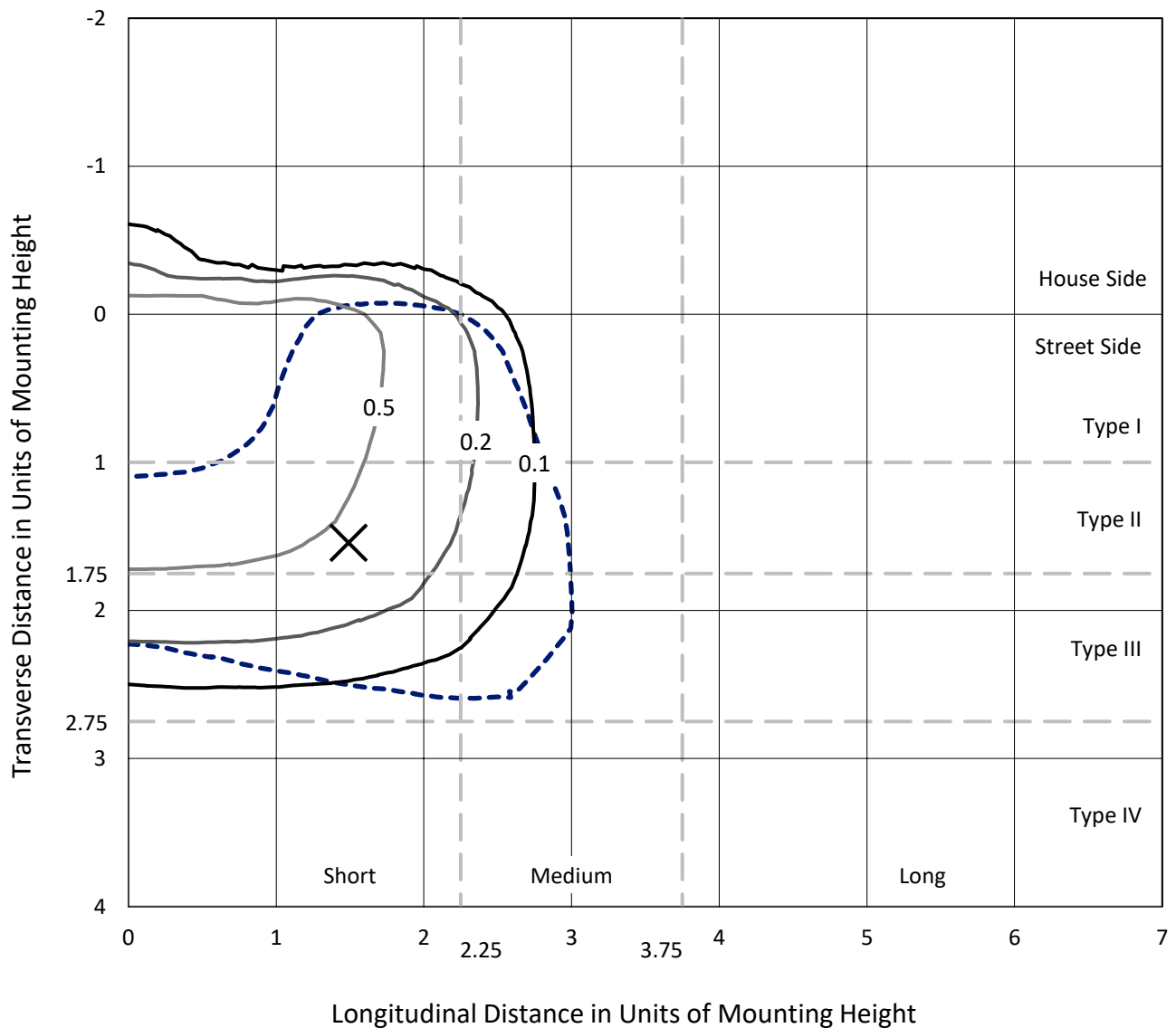
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA1C-840-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

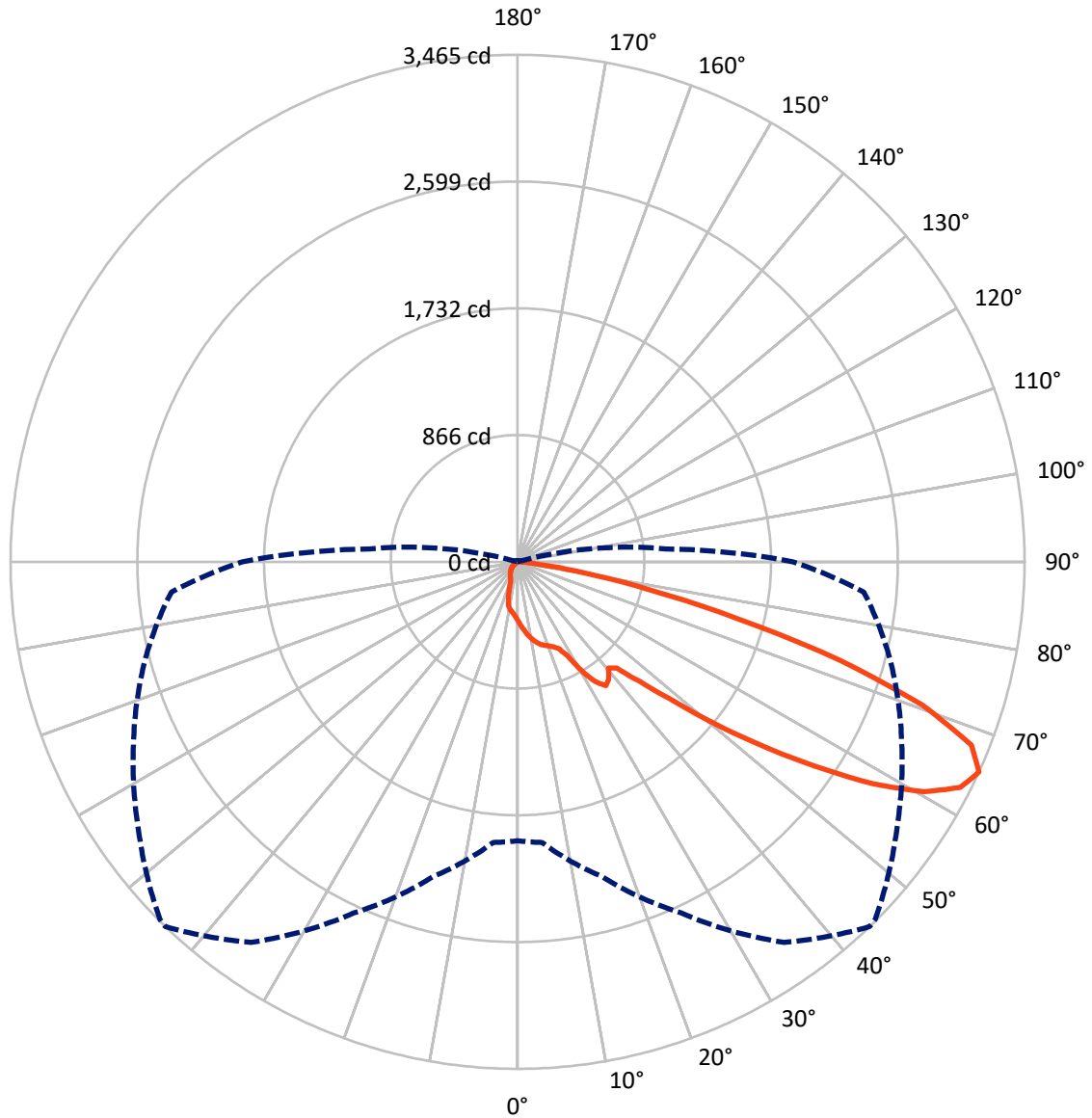
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P650716
CATALOG NUMBER: GALN-SA1C-840-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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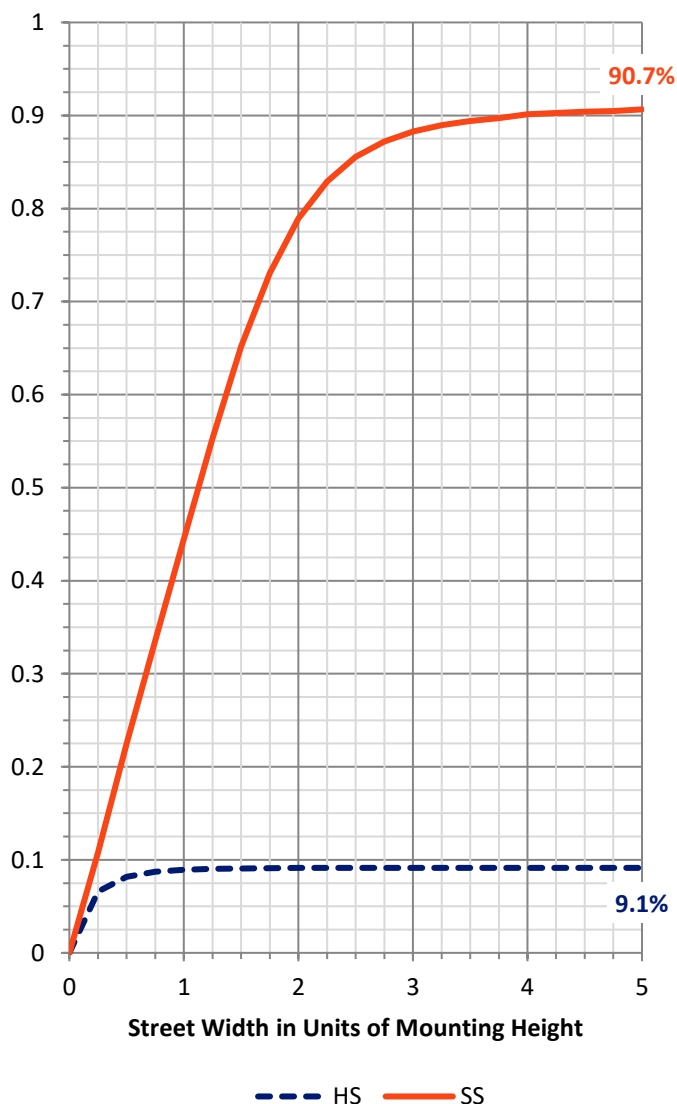
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	398.7	0.0	398.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	3929.0	0.0	3929.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	4327.8	0.0	4327.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	0.9
10°-20°	120.6	2.8
20°-30°	204.4	4.7
30°-40°	339.9	7.9
40°-50°	593.5	13.7
50°-60°	1159.5	26.8
60°-70°	1345.3	31.1
70°-80°	489.9	11.3
80°-90°	34.5	0.8
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°	4327.8	100.0
0°-180°	4327.8	100.0

Coefficient of Utilization

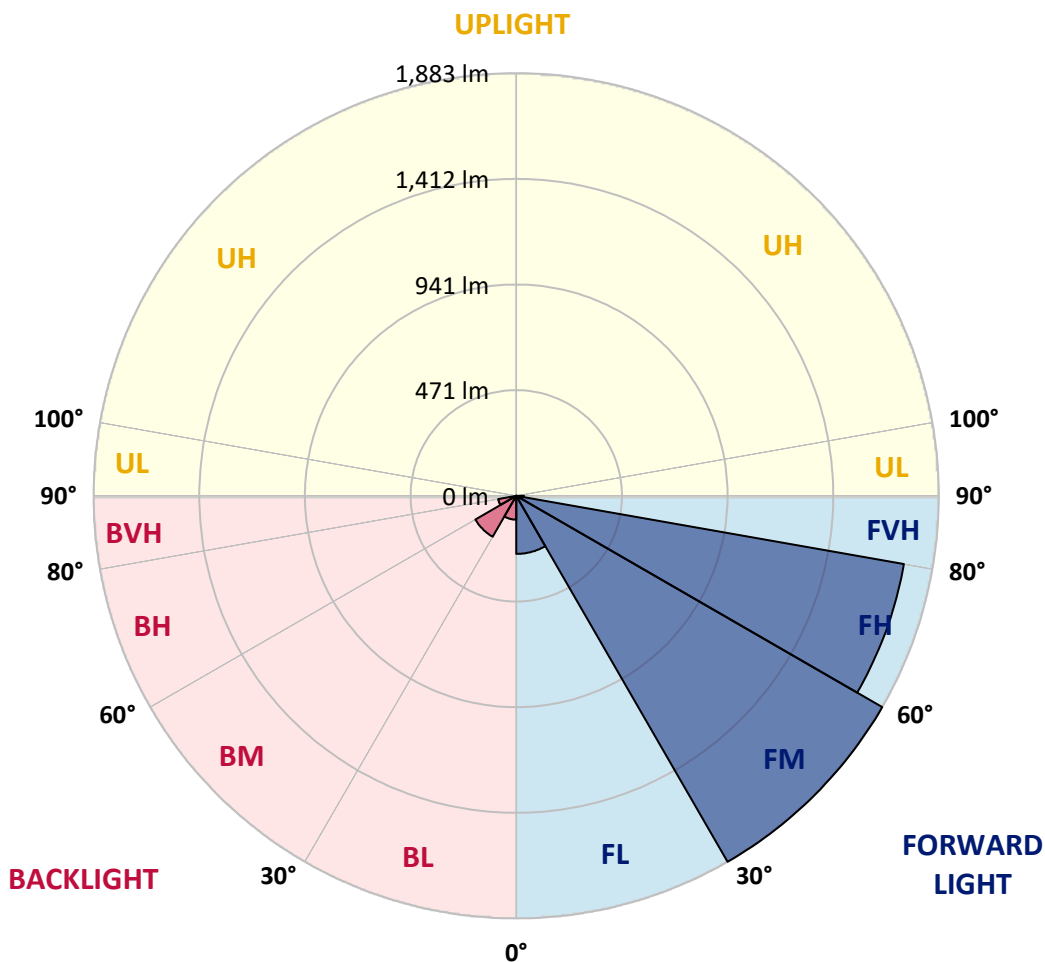


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 CATALOG NUMBER: GALN-SA1C-840-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.8	6.0			
FM (30°-60°)	1882.6	43.5			
FH (60°-80°)	1753.6	40.5			G1/1800
FVH (80°-90°)	34.1	0.8			G1/100
BL (0°-30°)	106.2	2.5	B0/110		
BM (30°-60°)	210.4	4.9	B0/220		
BH (60°-80°)	81.7	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	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 III Short





REPORT NUMBER: P650716

CATALOG NUMBER: GALN-SA1C-840-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8
2.5°	453.4	451.4	450.4	445.1	441.2	436.2	436.2	429.9	422.6	414.7	407.4
5°	504.0	500.6	496.4	491.7	482.5	469.3	469.3	456.0	440.9	427.2	412.3
7.5°	552.6	549.6	542.4	533.4	518.2	504.3	503.3	484.2	465.9	445.5	424.3
10°	595.3	592.9	586.7	569.4	553.5	535.4	535.0	513.6	492.4	467.3	441.2
12.5°	625.0	625.4	617.0	600.6	580.0	562.9	561.5	540.3	518.2	491.1	459.0
15°	646.1	646.1	637.6	619.1	600.6	585.3	584.0	565.5	542.7	513.3	478.5
17.5°	652.1	654.1	644.9	628.3	613.4	600.2	599.9	584.3	566.2	537.7	498.4
20°	649.8	651.8	644.5	631.6	621.4	613.8	612.8	606.5	589.6	562.9	519.5
22.5°	644.9	646.8	641.5	633.9	629.0	631.3	629.7	635.0	626.0	593.6	544.6
25°	645.9	647.8	643.9	639.6	643.9	658.1	662.4	685.2	677.3	632.6	571.8
27.5°	676.9	680.9	675.3	677.3	692.5	725.5	733.9	773.1	738.1	682.2	614.1
30°	746.1	743.4	732.8	742.4	795.3	865.5	863.1	856.8	802.0	739.4	664.4
32.5°	808.9	806.6	805.9	847.2	943.2	977.2	975.6	914.7	859.2	804.9	714.0
35°	834.4	825.4	823.4	923.7	1084.0	1039.1	1028.8	938.6	928.6	876.3	764.6
37.5°	911.1	904.7	874.1	936.2	1027.8	1012.9	1005.0	979.5	1002.6	939.5	821.7
40°	1069.2	1051.6	1023.8	962.9	948.1	954.4	962.4	1032.1	1090.3	1025.9	898.2
42.5°	1265.5	1261.6	1210.0	1096.6	985.1	993.7	1004.0	1141.9	1216.3	1155.8	1022.8
45°	1501.4	1507.0	1432.6	1298.7	1152.5	1159.7	1174.6	1304.0	1387.0	1357.9	1218.9
47.5°	1715.6	1711.4	1686.2	1547.0	1412.0	1395.9	1420.0	1511.9	1623.0	1627.7	1462.3
50°	1931.3	1954.1	1916.7	1862.1	1762.0	1727.9	1718.9	1763.9	1933.3	1911.1	1754.7
52.5°	2241.1	2253.0	2182.9	2169.0	2191.8	2081.4	2072.5	2083.4	2234.9	2158.8	1973.6
55°	2435.9	2429.0	2402.8	2511.3	2601.5	2463.7	2452.4	2408.5	2485.2	2333.7	2184.2
57.5°	2497.4	2507.4	2568.2	2764.3	2977.9	2860.8	2840.3	2715.3	2665.7	2496.8	2378.0
60°	2469.9	2488.2	2619.5	2911.1	3207.4	3189.9	3172.3	2962.3	2795.4	2633.0	2513.9
62.5°	2274.6	2300.0	2510.0	2885.0	3285.1	3394.6	3372.7	3116.5	2881.7	2699.1	2537.8
65°	1906.1	1925.0	2226.5	2647.9	3174.7	3464.7	3456.8	3164.8	2895.2	2638.6	2374.7
67.5°	1358.8	1423.0	1702.4	2231.5	2848.0	3345.0	3358.5	3106.9	2767.9	2377.0	1966.7
70°	854.2	897.9	1098.3	1597.6	2283.1	2934.6	2979.2	2842.0	2402.1	1852.9	1316.5
72.5°	407.4	439.8	582.6	1011.3	1611.4	2308.9	2344.3	2333.1	1857.5	1167.4	679.3
75°	181.6	193.8	278.1	516.2	1040.4	1552.0	1643.6	1658.8	1160.7	571.1	264.2
77.5°	92.6	92.9	130.3	250.0	519.5	925.9	944.1	997.3	629.3	251.6	91.9
80°	49.3	52.6	69.1	118.1	269.5	456.0	453.7	498.7	279.1	123.4	30.8
82.5°	22.1	24.5	39.0	61.8	131.6	173.0	186.5	204.0	119.7	78.7	13.5
85°	6.6	7.9	19.2	31.1	47.6	50.0	55.9	72.1	67.8	55.9	7.0
87.5°	1.0	1.0	7.9	8.6	7.0	8.9	9.3	10.3	21.9	20.5	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650716

CATALOG NUMBER: GALN-SA1C-840-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8
2.5°	403.4	401.2	392.8	385.9	380.0	376.3	372.1	369.4	368.1	367.1	367.4
5°	405.1	399.5	385.3	374.0	365.4	356.2	349.9	346.2	344.6	342.0	342.0
7.5°	414.4	405.4	385.6	368.4	353.5	340.9	329.1	324.7	321.8	321.1	320.4
10°	427.6	416.4	389.2	365.4	344.2	327.1	310.2	295.3	283.8	276.8	275.8
12.5°	444.1	427.9	394.8	363.4	336.3	305.9	261.2	231.2	211.0	204.7	205.7
15°	459.4	441.8	400.5	361.8	321.8	253.6	203.0	168.6	158.4	157.4	157.8
17.5°	477.5	456.7	407.1	359.4	281.7	193.8	150.8	141.5	143.6	146.8	146.5
20°	496.4	472.6	415.0	345.6	224.9	145.8	133.3	134.2	137.3	140.2	140.9
22.5°	516.5	490.7	424.3	312.2	171.6	127.0	126.3	127.7	130.6	134.0	134.6
25°	544.3	513.6	431.3	268.5	129.9	117.4	118.7	121.0	123.7	127.3	128.0
27.5°	580.0	544.3	434.9	211.7	112.4	108.8	109.2	112.4	115.7	119.1	119.1
30°	626.4	581.0	427.6	160.0	103.9	100.5	99.2	101.2	105.5	108.8	109.2
32.5°	667.7	615.8	408.4	122.4	97.6	92.9	89.7	90.0	91.6	93.6	93.9
35°	709.0	649.5	375.7	102.9	90.9	85.6	80.7	78.0	76.7	75.7	76.7
37.5°	761.9	691.5	332.0	93.6	85.4	78.7	71.7	66.1	61.5	58.5	59.2
40°	830.1	749.7	280.4	87.6	80.1	72.1	62.8	55.6	47.6	45.0	43.6
42.5°	942.5	838.0	226.2	82.7	74.8	65.2	53.6	43.6	36.4	33.7	34.4
45°	1120.0	949.4	174.3	77.4	69.5	57.5	45.0	34.4	28.4	27.1	27.8
47.5°	1355.5	1093.6	134.2	71.4	62.8	49.3	35.4	27.1	23.5	23.1	22.8
50°	1577.1	1227.9	112.1	64.8	54.9	41.0	29.1	22.8	20.5	20.2	20.2
52.5°	1777.5	1324.1	91.2	57.2	46.3	33.7	24.5	20.2	18.2	17.2	17.2
55°	1955.7	1387.0	74.1	47.9	36.4	26.8	21.2	18.2	15.9	14.5	14.2
57.5°	2090.3	1394.5	55.6	38.3	27.1	20.9	18.2	15.9	13.2	11.6	10.9
60°	2147.8	1328.7	41.0	29.1	20.2	16.6	14.5	12.9	9.9	8.2	7.9
62.5°	2090.0	1200.8	30.4	22.1	15.6	12.2	10.3	9.6	7.0	5.0	4.6
65°	1882.7	1015.9	24.1	16.9	11.6	8.9	6.6	6.3	4.3	2.4	2.0
67.5°	1508.3	795.7	19.2	12.5	8.2	6.0	4.3	4.0	2.4	0.7	0.7
70°	980.9	508.6	15.6	9.3	5.3	4.0	2.6	2.0	1.3	0.3	0.0
72.5°	485.2	237.8	12.5	7.3	3.6	2.0	1.0	0.7	1.0	0.0	0.0
75°	188.1	84.7	9.3	5.0	2.0	1.0	0.7	0.0	0.3	0.0	0.0
77.5°	62.5	28.1	5.6	2.6	1.3	0.7	0.0	0.0	0.0	0.0	0.0
80°	23.1	10.9	2.9	1.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.3	4.3	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.6	1.3	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	2.0	1.3	1.0	0.7	0.3	0.0	0.0	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)