

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: P651704

Luminaire Tested: **GALN-SA1A-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651704
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-SA1A-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA 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: 2802.2 lumens
Efficiency: N/A
Efficacy: 84.9 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

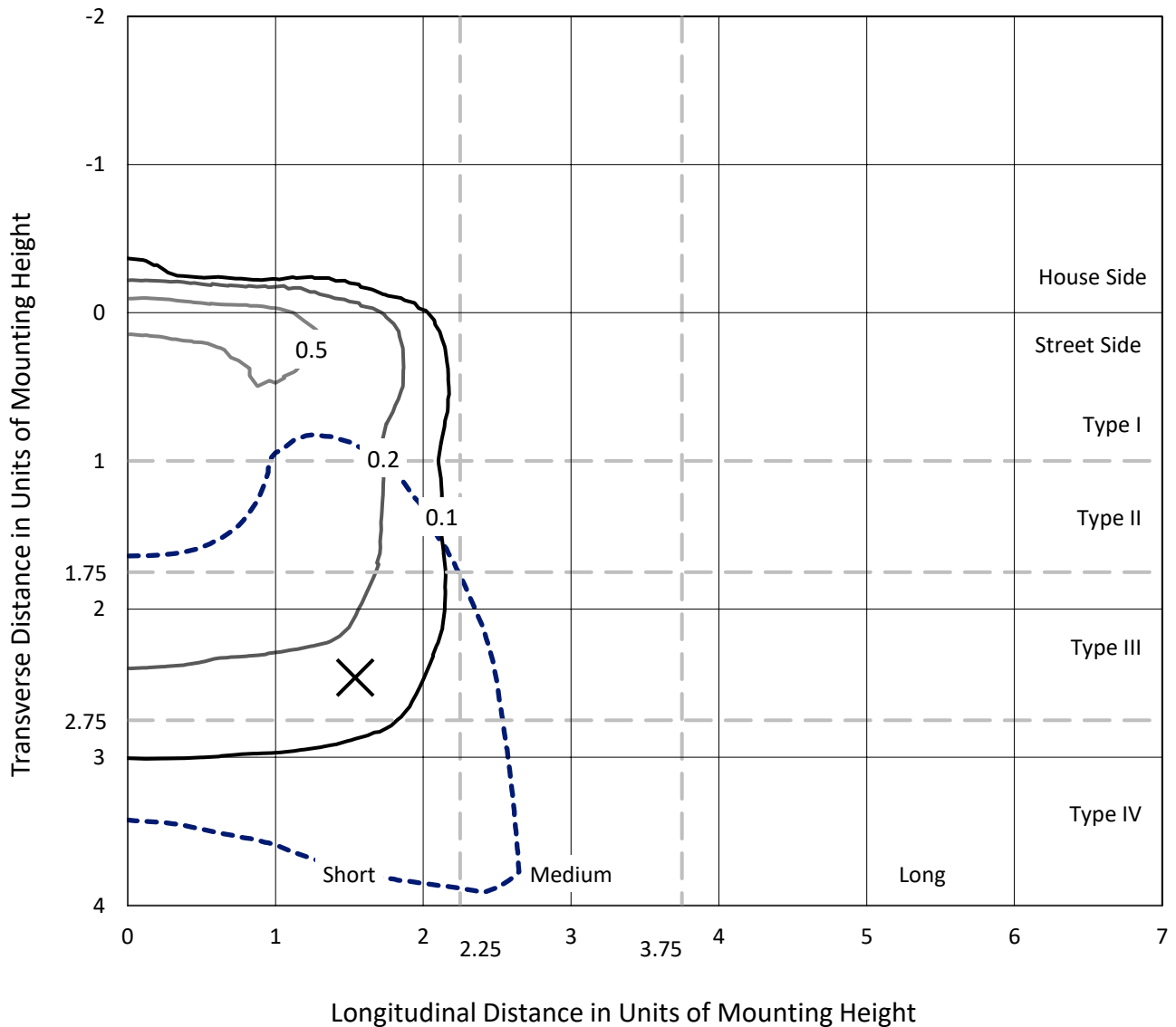
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

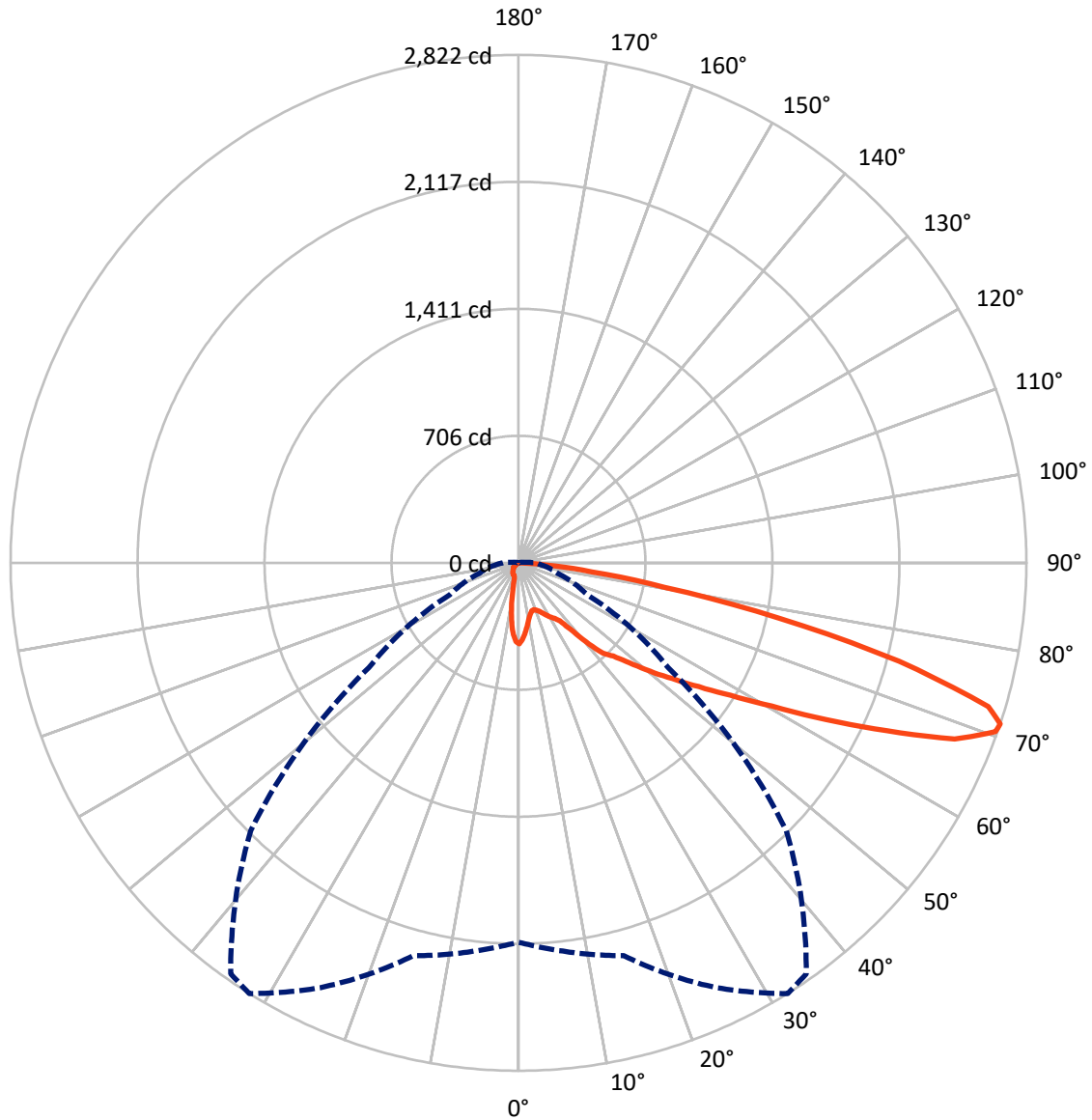
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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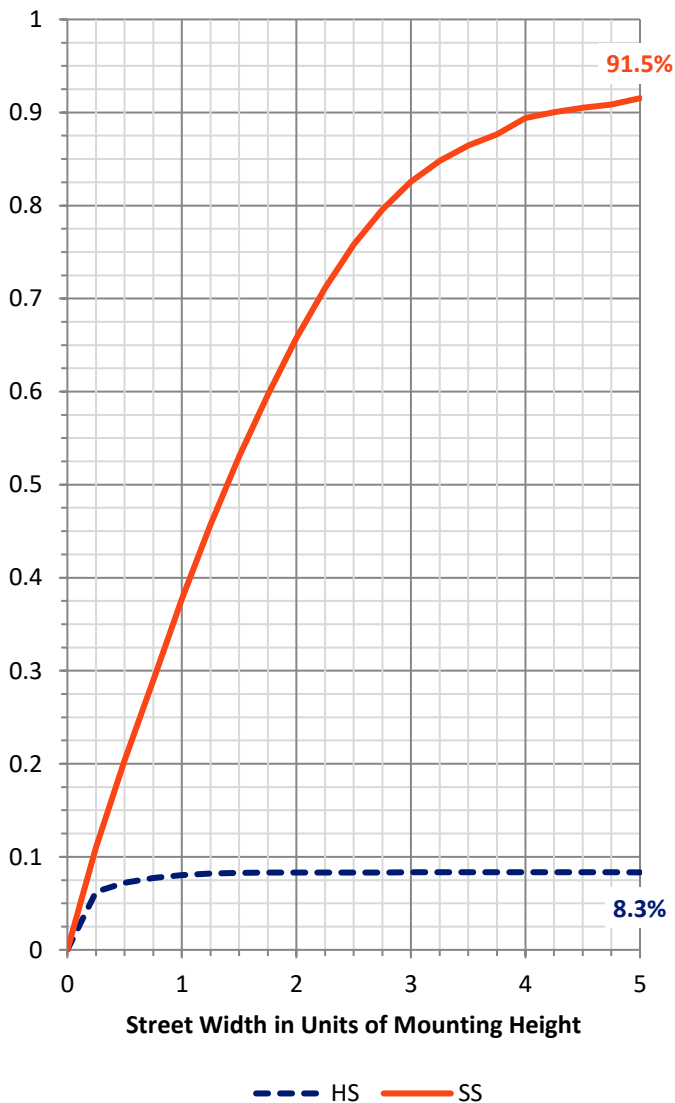
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	234.7	0.0	234.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2567.5	0.0	2567.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	2802.2	0.0	2802.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	1.3
10°-20°	79.5	2.8
20°-30°	123.7	4.4
30°-40°	206.1	7.4
40°-50°	383.4	13.7
50°-60°	615.6	22.0
60°-70°	828.0	29.5
70°-80°	491.3	17.5
80°-90°	38.0	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°	2802.2	100.0
0°-180°	2802.2	100.0

Coefficient of Utilization

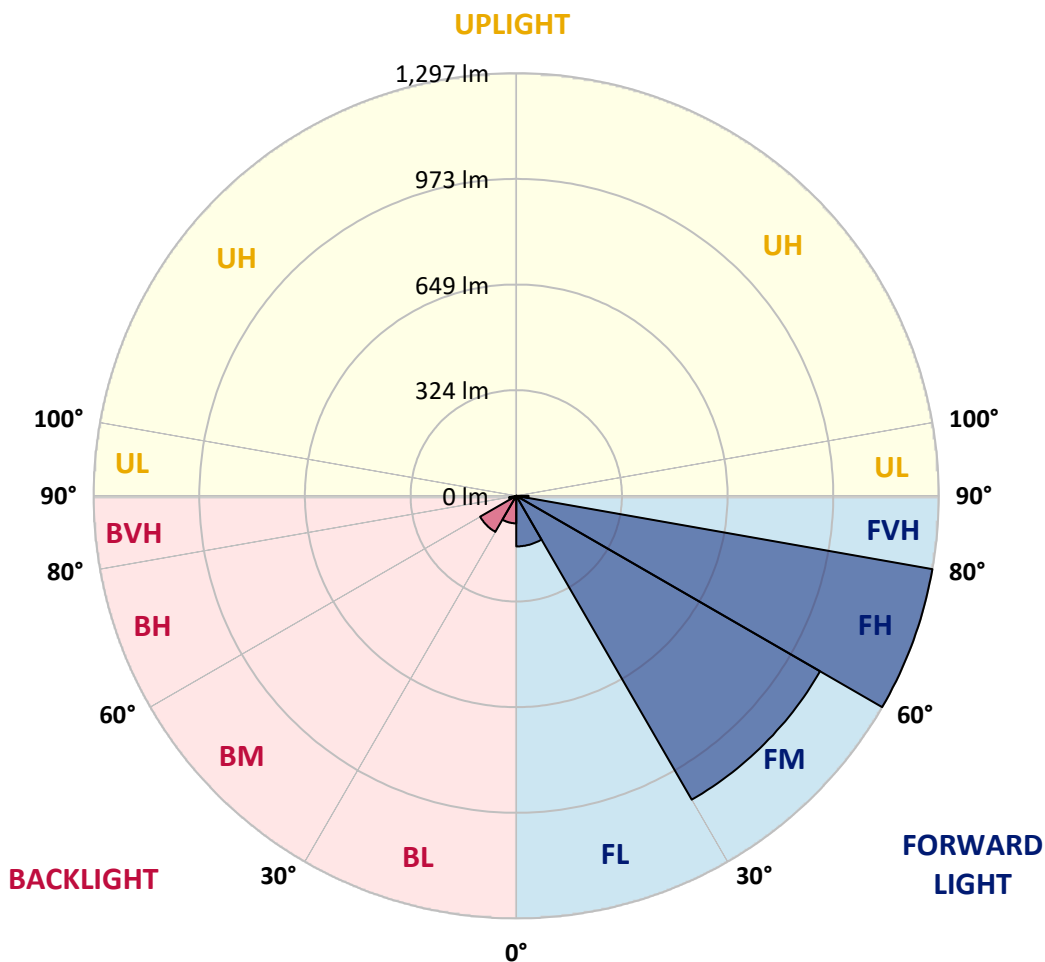


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.3	5.5			
FM (30°-60°)	1077.1	38.4			
FH (60°-80°)	1297.3	46.3			G1/1800
FVH (80°-90°)	37.8	1.4			G1/100
BL (0°-30°)	84.6	3.0	B0/110		
BM (30°-60°)	128.0	4.6	B0/220		
BH (60°-80°)	22.0	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°	450.6	450.6	450.6	450.6	450.6	450.6	450.6	450.6	450.6	450.6	450.6
2.5°	418.0	422.3	421.6	423.1	426.7	428.2	432.4	436.9	443.1	447.4	450.2
5°	374.2	377.5	377.9	385.4	389.1	393.2	405.3	418.4	433.0	444.6	452.4
7.5°	327.6	329.3	332.8	342.6	351.9	356.0	374.2	397.1	420.1	441.9	455.8
10°	289.1	291.1	297.3	307.8	316.4	321.8	347.2	375.8	408.1	440.3	460.8
12.5°	267.2	268.2	270.6	280.1	291.1	296.9	324.1	356.8	398.4	440.9	469.1
15°	265.7	265.3	262.4	266.3	276.2	282.2	308.9	344.0	389.8	443.1	479.0
17.5°	273.6	272.6	265.8	265.8	274.1	279.0	302.4	337.1	385.4	448.1	493.0
20°	285.9	284.2	273.2	272.3	280.3	285.4	306.3	337.5	386.4	457.3	511.7
22.5°	301.3	299.4	282.8	283.2	291.9	297.0	317.5	345.2	391.7	468.7	531.8
25°	321.6	319.4	299.8	299.0	308.1	312.5	334.0	359.0	399.2	482.9	558.0
27.5°	348.4	344.0	320.5	319.2	328.9	334.7	354.1	377.5	412.6	502.5	593.2
30°	370.6	365.7	343.3	339.8	350.2	354.7	374.7	402.4	438.8	536.6	642.1
32.5°	399.6	392.3	366.1	357.1	368.0	373.8	404.6	448.9	477.8	572.8	700.1
35°	465.1	460.5	428.5	396.9	396.2	403.5	448.7	495.8	517.7	629.2	779.4
37.5°	558.6	555.4	521.4	479.0	466.8	463.3	502.2	547.4	581.6	706.6	871.4
40°	667.2	659.7	628.6	592.6	576.7	566.6	565.5	624.2	665.1	811.8	967.3
42.5°	745.1	731.3	693.5	690.9	687.4	676.9	646.4	736.5	772.9	924.9	1069.9
45°	826.9	806.0	749.7	739.9	738.7	738.0	768.6	869.4	890.3	1047.5	1175.3
47.5°	890.3	873.7	827.5	823.2	828.6	843.2	930.1	1010.5	1006.3	1156.8	1263.7
50°	974.8	962.4	911.0	919.1	946.9	970.8	1112.3	1164.4	1101.5	1242.8	1328.0
52.5°	1074.6	1051.7	1003.9	1026.0	1068.7	1108.4	1305.7	1299.0	1168.4	1307.6	1376.0
55°	1161.1	1144.8	1128.5	1151.4	1215.1	1264.8	1480.3	1399.8	1217.0	1359.6	1397.1
57.5°	1307.4	1303.6	1286.7	1310.2	1387.4	1439.0	1636.8	1478.1	1248.2	1386.7	1372.3
60°	1523.8	1517.6	1486.4	1516.2	1616.9	1698.0	1780.8	1548.5	1255.4	1376.2	1301.2
62.5°	1784.1	1762.7	1736.1	1780.2	1918.3	1954.0	1916.6	1590.2	1228.9	1292.4	1129.5
65°	2027.1	2005.2	2005.9	2098.7	2249.1	2273.4	2074.9	1584.0	1151.4	1082.2	833.1
67.5°	2213.2	2209.6	2235.8	2417.1	2613.7	2596.9	2216.5	1490.7	921.9	701.5	442.7
70°	2222.7	2229.7	2305.0	2611.1	2810.7	2784.0	2204.3	1211.7	574.7	322.7	174.4
71°	2108.2	2156.0	2260.1	2605.1	2822.4	2787.7	2102.8	1014.8	421.6	225.0	125.8
72.5°	1796.5	1821.7	2046.7	2451.8	2730.5	2656.6	1845.3	711.3	270.0	137.7	72.2
75°	989.4	1051.4	1370.7	1923.5	2183.9	2119.0	1202.6	337.9	134.6	75.3	29.9
77.5°	471.0	459.0	668.8	1143.9	1480.7	1477.3	605.9	150.1	78.5	51.0	15.1
80°	134.6	151.5	256.0	543.8	822.2	831.2	232.7	72.5	54.4	39.8	7.7
82.5°	40.6	41.5	94.0	240.5	408.9	385.4	87.3	37.0	39.2	31.6	4.5
85°	7.1	8.8	27.8	84.8	155.9	118.3	22.0	17.7	25.8	20.9	2.6
87.5°	0.4	0.7	9.3	9.7	13.8	8.0	3.9	2.6	5.6	5.6	1.5
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°	450.6	450.6	450.6	450.6	450.6	450.6	450.6	450.6	450.6	450.6	450.6
2.5°	452.1	453.5	452.5	450.6	447.4	443.5	438.4	434.0	430.4	428.5	430.8
5°	455.0	456.7	452.4	442.7	428.1	412.2	394.1	380.0	369.1	365.7	364.4
7.5°	459.3	460.3	448.7	427.2	396.2	358.6	325.6	297.9	276.4	270.0	260.5
10°	464.8	464.2	442.3	402.3	347.8	291.2	240.3	202.4	173.8	163.5	162.6
12.5°	473.4	470.0	434.0	368.3	290.1	216.1	153.1	119.8	101.8	95.7	94.4
15°	484.2	476.0	421.2	328.5	222.2	139.6	94.4	84.4	81.9	81.5	81.1
17.5°	496.9	484.0	404.2	279.6	156.2	90.6	79.0	78.7	79.0	78.5	78.3
20°	514.1	492.4	383.9	221.8	103.3	76.4	75.3	75.3	75.5	75.3	75.3
22.5°	532.4	502.2	359.0	169.3	77.9	72.5	72.2	72.7	73.2	72.9	72.9
25°	555.0	515.2	326.1	116.0	69.7	69.3	69.5	70.3	71.2	71.4	71.2
27.5°	587.7	531.1	290.8	79.8	63.9	64.3	66.4	68.6	69.9	70.1	70.1
30°	624.4	548.8	244.8	64.8	59.1	59.1	61.7	65.9	68.6	69.0	69.3
32.5°	671.8	569.2	193.8	58.3	54.7	54.2	56.6	61.6	66.7	68.2	68.2
35°	730.2	593.2	144.1	54.2	51.4	50.4	51.6	55.7	62.4	66.7	67.1
37.5°	798.9	616.0	105.4	50.5	48.4	46.9	47.8	51.0	56.3	62.8	64.5
40°	862.4	636.3	78.7	47.5	45.4	44.3	45.0	46.4	51.0	57.0	58.1
42.5°	931.6	651.9	62.6	44.3	42.4	42.0	42.0	42.6	45.6	49.0	49.3
45°	1000.6	657.6	52.5	40.5	39.2	39.6	39.4	38.9	40.2	39.8	39.8
47.5°	1049.9	650.9	43.5	36.8	36.8	37.4	36.3	34.8	34.2	31.6	31.9
50°	1083.7	626.6	35.7	32.5	34.2	35.1	32.9	30.5	28.2	25.4	24.7
52.5°	1097.7	583.3	29.3	26.9	30.4	31.4	28.8	26.0	22.4	20.0	19.3
55°	1088.7	530.0	24.3	22.0	25.6	26.9	24.3	21.1	17.0	14.4	14.0
57.5°	1048.8	466.3	20.7	17.4	20.4	21.3	19.6	16.1	12.0	9.5	9.5
60°	980.0	400.5	16.8	13.8	15.3	16.6	14.8	11.6	8.2	5.8	5.4
62.5°	840.4	325.2	13.5	10.8	10.8	11.9	10.3	8.4	5.1	3.0	2.8
65°	606.8	223.0	10.8	8.0	7.7	7.7	6.5	5.6	3.0	1.3	0.8
67.5°	329.8	125.8	8.6	6.1	5.4	5.1	4.1	3.2	1.3	0.3	0.0
70°	129.7	48.4	6.6	4.1	3.4	3.2	2.2	1.5	0.8	0.0	0.0
71°	88.0	33.3	5.8	3.4	2.8	2.4	1.7	1.3	0.7	0.0	0.0
72.5°	50.4	20.7	4.5	2.6	2.2	1.7	1.3	0.8	0.7	0.0	0.0
75°	22.0	10.5	2.8	1.9	1.5	1.1	0.8	0.7	0.3	0.0	0.0
77.5°	11.2	5.8	1.9	1.5	0.8	0.7	0.4	0.3	0.0	0.0	0.0
80°	6.2	3.0	1.3	0.8	0.7	0.4	0.3	0.3	0.0	0.0	0.0
82.5°	3.4	1.7	0.7	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.4	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)