

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: P651706

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651706
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-SA1A-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA 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: 2814.8 lumens
Efficiency: N/A
Efficacy: 85.3 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

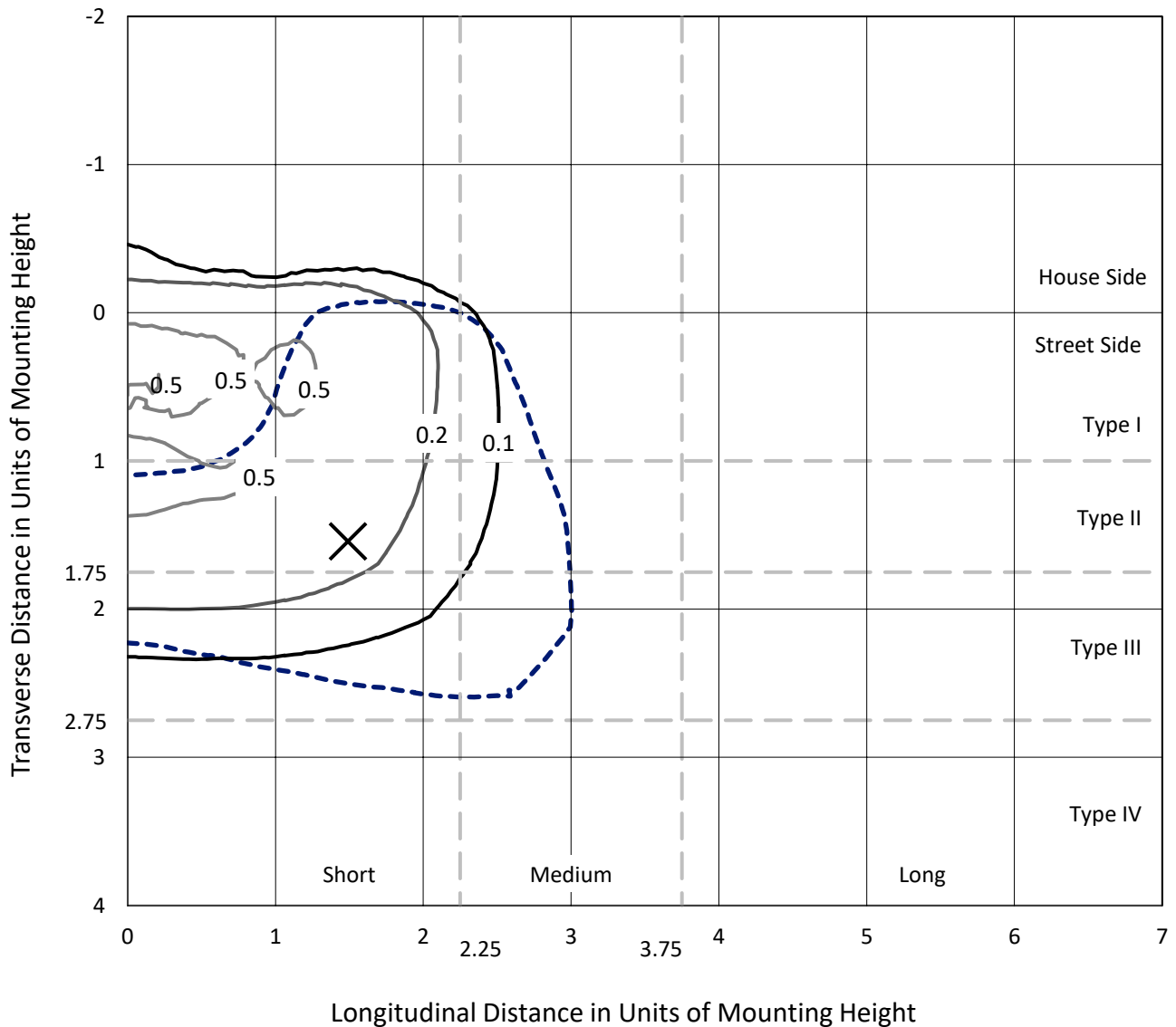
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

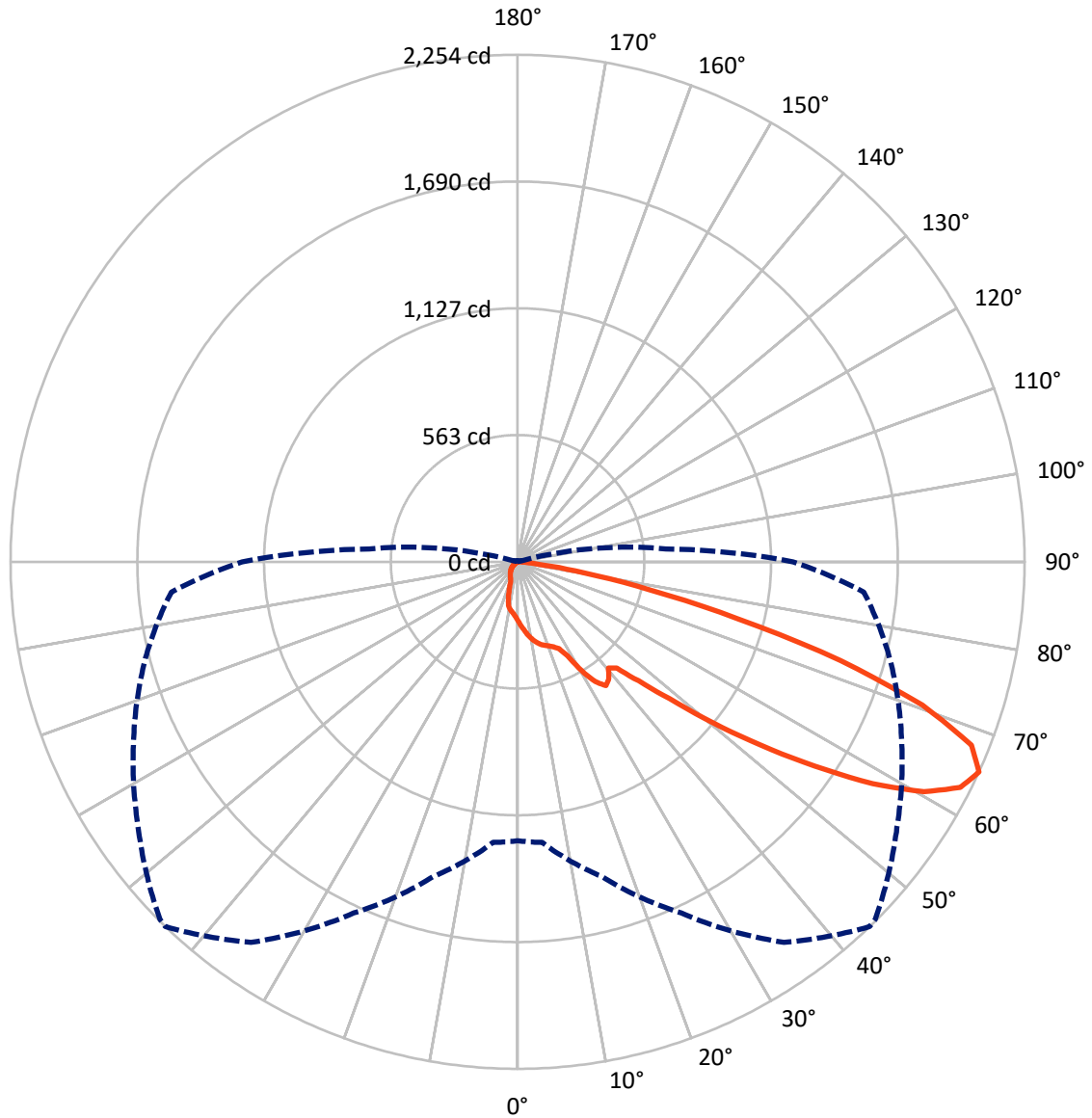
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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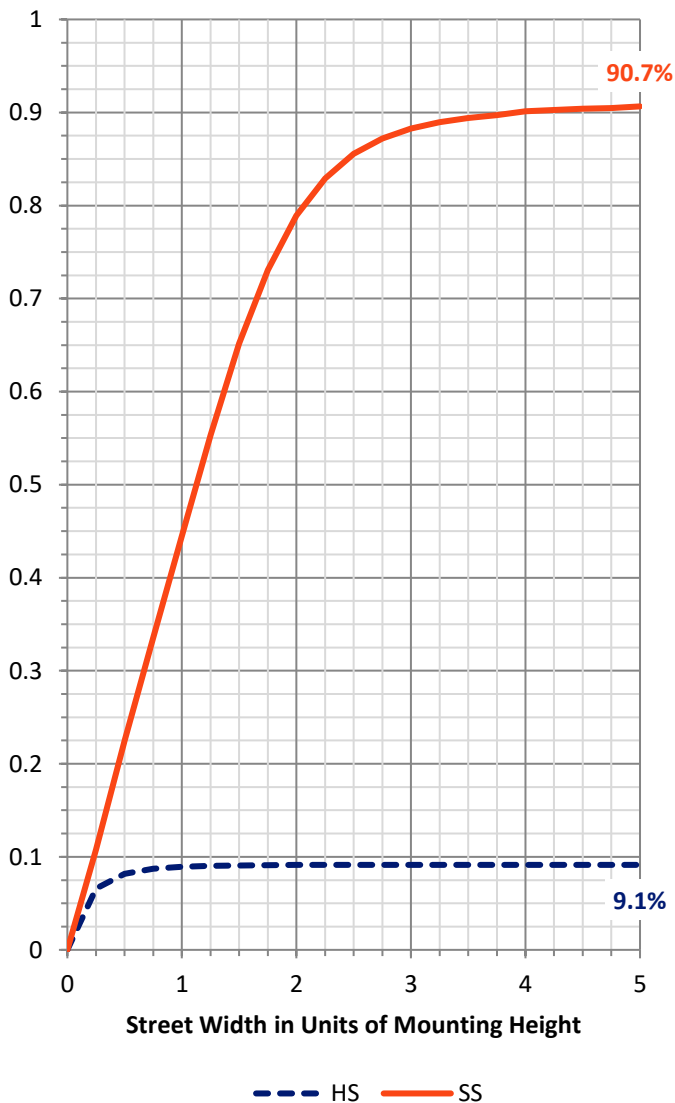
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	259.4	0.0	259.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	2555.5	0.0	2555.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	2814.8	0.0	2814.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	0.9
10°-20°	78.4	2.8
20°-30°	133.0	4.7
30°-40°	221.1	7.9
40°-50°	386.0	13.7
50°-60°	754.2	26.8
60°-70°	875.0	31.1
70°-80°	318.6	11.3
80°-90°	22.4	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°	2814.8	100.0
0°-180°	2814.8	100.0

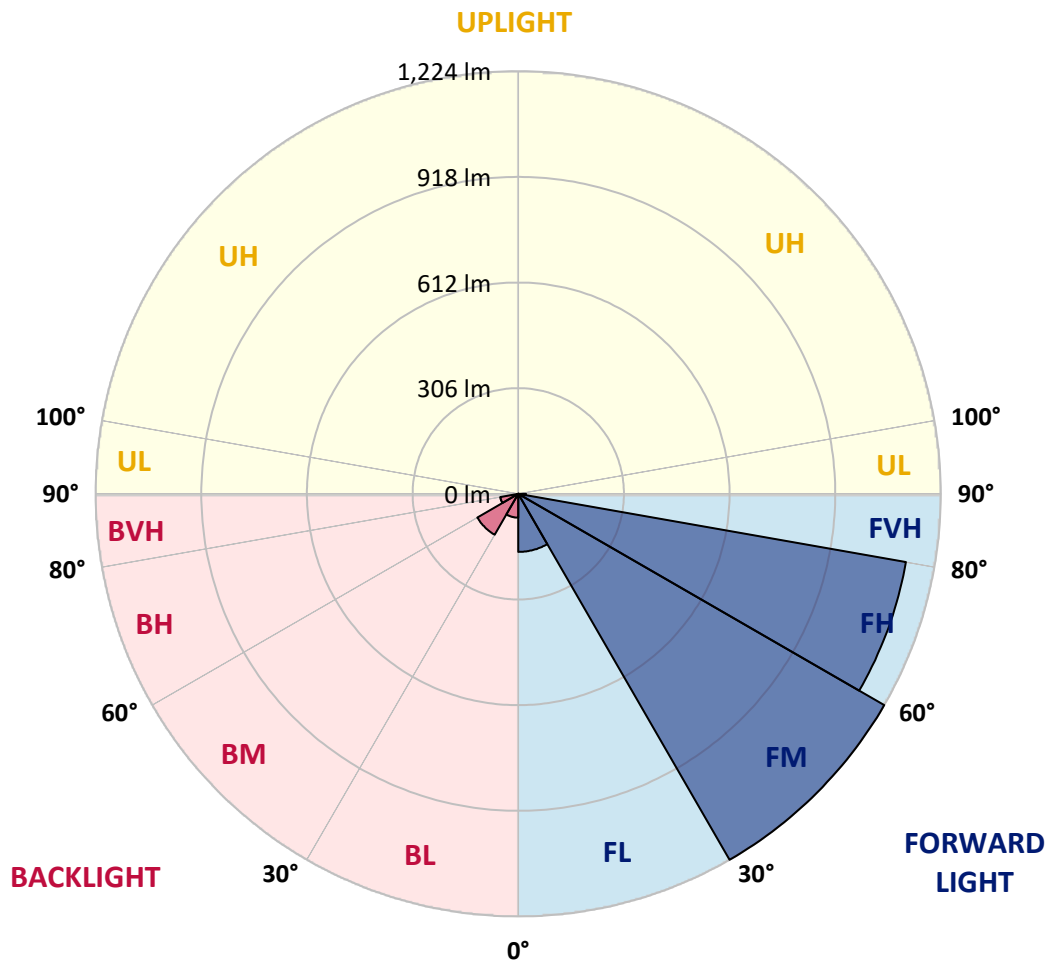


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.4	6.0			
FM (30°-60°)	1224.4	43.5			
FH (60°-80°)	1140.5	40.5			G1/1800
FVH (80°-90°)	22.1	0.8			G1/100
BL (0°-30°)	69.1	2.5	B0/110		
BM (30°-60°)	136.8	4.9	B0/220		
BH (60°-80°)	53.1	1.9	B0/110		G0/110
BVH (80°-90°)	0.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0
2.5°	294.9	293.6	292.9	289.5	286.9	283.7	283.7	279.6	274.9	269.7	265.0
5°	327.8	325.6	322.9	319.8	313.8	305.2	305.2	296.6	286.7	277.9	268.2
7.5°	359.4	357.5	352.7	346.9	337.1	328.0	327.4	314.9	303.1	289.7	275.9
10°	387.2	385.7	381.6	370.4	360.0	348.3	348.0	334.0	320.3	303.9	286.9
12.5°	406.5	406.7	401.3	390.6	377.3	366.1	365.2	351.5	337.1	319.4	298.6
15°	420.2	420.2	414.7	402.7	390.6	380.7	379.9	367.8	353.0	333.8	311.3
17.5°	424.1	425.5	419.4	408.6	399.0	390.4	390.1	380.0	368.2	349.8	324.1
20°	422.7	423.9	419.2	410.8	404.2	399.2	398.5	394.4	383.5	366.1	337.9
22.5°	419.4	420.8	417.3	412.3	409.1	410.6	409.6	412.9	407.1	386.1	354.2
25°	420.1	421.3	418.7	416.0	418.7	428.0	430.8	445.6	440.5	411.5	371.9
27.5°	440.3	442.9	439.2	440.5	450.4	471.9	477.3	502.8	480.0	443.7	399.4
30°	485.3	483.5	476.6	482.9	517.3	562.9	561.4	557.3	521.6	481.0	432.1
32.5°	526.1	524.6	524.2	551.0	613.4	635.5	634.5	594.9	558.8	523.5	464.4
35°	542.7	536.9	535.5	600.7	705.1	675.8	669.1	610.4	604.0	569.9	497.3
37.5°	592.6	588.4	568.5	608.9	668.5	658.8	653.6	637.1	652.1	611.1	534.5
40°	695.3	684.0	665.9	626.3	616.6	620.7	625.9	671.3	709.1	667.2	584.2
42.5°	823.2	820.6	787.0	713.3	640.8	646.3	653.0	742.7	791.1	751.8	665.2
45°	976.5	980.2	931.7	844.6	749.6	754.3	764.0	848.1	902.1	883.1	792.8
47.5°	1115.8	1113.1	1096.7	1006.2	918.5	907.9	923.6	983.4	1055.6	1058.7	951.1
50°	1256.1	1270.9	1246.6	1211.1	1145.9	1123.8	1118.0	1147.3	1257.4	1243.0	1141.2
52.5°	1457.6	1465.4	1419.8	1410.8	1425.6	1353.8	1348.0	1355.0	1453.6	1404.0	1283.6
55°	1584.4	1579.8	1562.8	1633.4	1692.1	1602.4	1595.1	1566.4	1616.4	1517.8	1420.6
57.5°	1624.3	1630.8	1670.4	1797.9	1936.8	1860.7	1847.4	1766.1	1733.8	1623.9	1546.7
60°	1606.5	1618.3	1703.7	1893.4	2086.1	2074.7	2063.3	1926.7	1818.2	1712.5	1635.1
62.5°	1479.4	1496.0	1632.5	1876.4	2136.6	2207.9	2193.7	2027.0	1874.3	1755.5	1650.5
65°	1239.8	1252.0	1448.2	1722.2	2064.8	2253.5	2248.3	2058.3	1883.1	1716.1	1544.6
67.5°	883.8	925.5	1107.3	1451.4	1852.3	2175.6	2184.4	2020.8	1800.2	1546.0	1279.2
70°	555.6	584.0	714.3	1039.1	1485.0	1908.6	1937.7	1848.4	1562.4	1205.2	856.2
72.5°	265.0	286.1	379.0	657.7	1048.1	1501.8	1524.7	1517.4	1208.2	759.3	441.8
75°	118.1	126.1	180.9	335.7	676.7	1009.4	1069.0	1078.9	755.0	371.5	171.8
77.5°	60.2	60.5	84.8	162.6	337.9	602.2	614.1	648.7	409.3	163.7	59.8
80°	32.0	34.2	45.0	76.8	175.3	296.6	295.1	324.4	181.6	80.2	20.0
82.5°	14.4	15.9	25.4	40.2	85.6	112.5	121.3	132.7	77.9	51.2	8.8
85°	4.3	5.1	12.4	20.2	30.9	32.5	36.3	46.9	44.1	36.3	4.5
87.5°	0.7	0.7	5.1	5.6	4.5	5.8	6.1	6.6	14.2	13.4	2.4
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°	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0
2.5°	262.4	260.9	255.5	251.0	247.2	244.7	242.0	240.3	239.4	238.8	238.9
5°	263.5	259.8	250.6	243.3	237.7	231.6	227.6	225.2	224.1	222.4	222.4
7.5°	269.5	263.7	250.8	239.6	229.9	221.8	214.0	211.2	209.2	208.8	208.4
10°	278.1	270.8	253.1	237.7	223.9	212.7	201.8	192.1	184.5	180.1	179.4
12.5°	288.9	278.3	256.8	236.4	218.7	199.0	169.9	150.4	137.3	133.1	133.8
15°	298.7	287.4	260.5	235.3	209.2	165.0	132.0	109.7	103.0	102.3	102.6
17.5°	310.6	297.0	264.7	233.8	183.3	126.1	98.1	92.1	93.4	95.5	95.3
20°	322.9	307.4	270.0	224.8	146.2	94.9	86.7	87.3	89.2	91.2	91.7
22.5°	336.0	319.2	275.9	203.0	111.6	82.6	82.2	83.0	84.9	87.1	87.5
25°	354.1	334.0	280.5	174.7	84.5	76.4	77.2	78.7	80.5	82.8	83.3
27.5°	377.3	354.1	282.8	137.7	73.2	70.7	71.0	73.2	75.3	77.5	77.5
30°	407.4	377.9	278.1	104.1	67.5	65.3	64.5	65.9	68.6	70.7	71.0
32.5°	434.3	400.5	265.7	79.6	63.4	60.5	58.3	58.5	59.5	60.9	61.1
35°	461.1	422.4	244.3	66.9	59.1	55.7	52.5	50.8	49.9	49.3	49.9
37.5°	495.6	449.8	216.0	60.9	55.5	51.2	46.7	43.1	40.0	38.1	38.5
40°	539.8	487.6	182.4	57.0	52.1	46.9	40.9	36.2	30.9	29.3	28.4
42.5°	613.0	545.1	147.1	53.7	48.6	42.4	34.8	28.4	23.6	22.0	22.4
45°	728.5	617.5	113.4	50.3	45.2	37.4	29.3	22.4	18.5	17.7	18.1
47.5°	881.6	711.3	87.3	46.4	40.9	32.0	23.0	17.7	15.3	15.1	14.8
50°	1025.8	798.6	72.9	42.1	35.7	26.7	18.9	14.8	13.4	13.1	13.1
52.5°	1156.1	861.2	59.4	37.2	30.1	22.0	15.9	13.1	11.9	11.2	11.2
55°	1272.0	902.1	48.2	31.2	23.6	17.4	13.8	11.9	10.3	9.5	9.3
57.5°	1359.6	907.0	36.2	25.0	17.7	13.5	11.9	10.3	8.6	7.6	7.1
60°	1397.0	864.2	26.7	18.9	13.1	10.8	9.5	8.4	6.5	5.4	5.1
62.5°	1359.4	781.0	19.8	14.4	10.1	8.0	6.6	6.2	4.5	3.2	3.0
65°	1224.5	660.8	15.7	10.9	7.6	5.8	4.3	4.1	2.8	1.5	1.3
67.5°	981.0	517.5	12.4	8.2	5.4	3.9	2.8	2.6	1.5	0.4	0.4
70°	638.0	330.8	10.1	6.1	3.4	2.6	1.7	1.3	0.8	0.3	0.0
72.5°	315.5	154.7	8.2	4.7	2.4	1.3	0.7	0.4	0.7	0.0	0.0
75°	122.4	55.1	6.1	3.2	1.3	0.7	0.4	0.0	0.3	0.0	0.0
77.5°	40.6	18.2	3.6	1.7	0.8	0.4	0.0	0.0	0.0	0.0	0.0
80°	15.1	7.1	1.9	1.1	0.4	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	6.1	2.8	1.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.7	0.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.3	0.8	0.7	0.4	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)