

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: P651696

Luminaire Tested: **GALN-SA1A-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2323.7 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

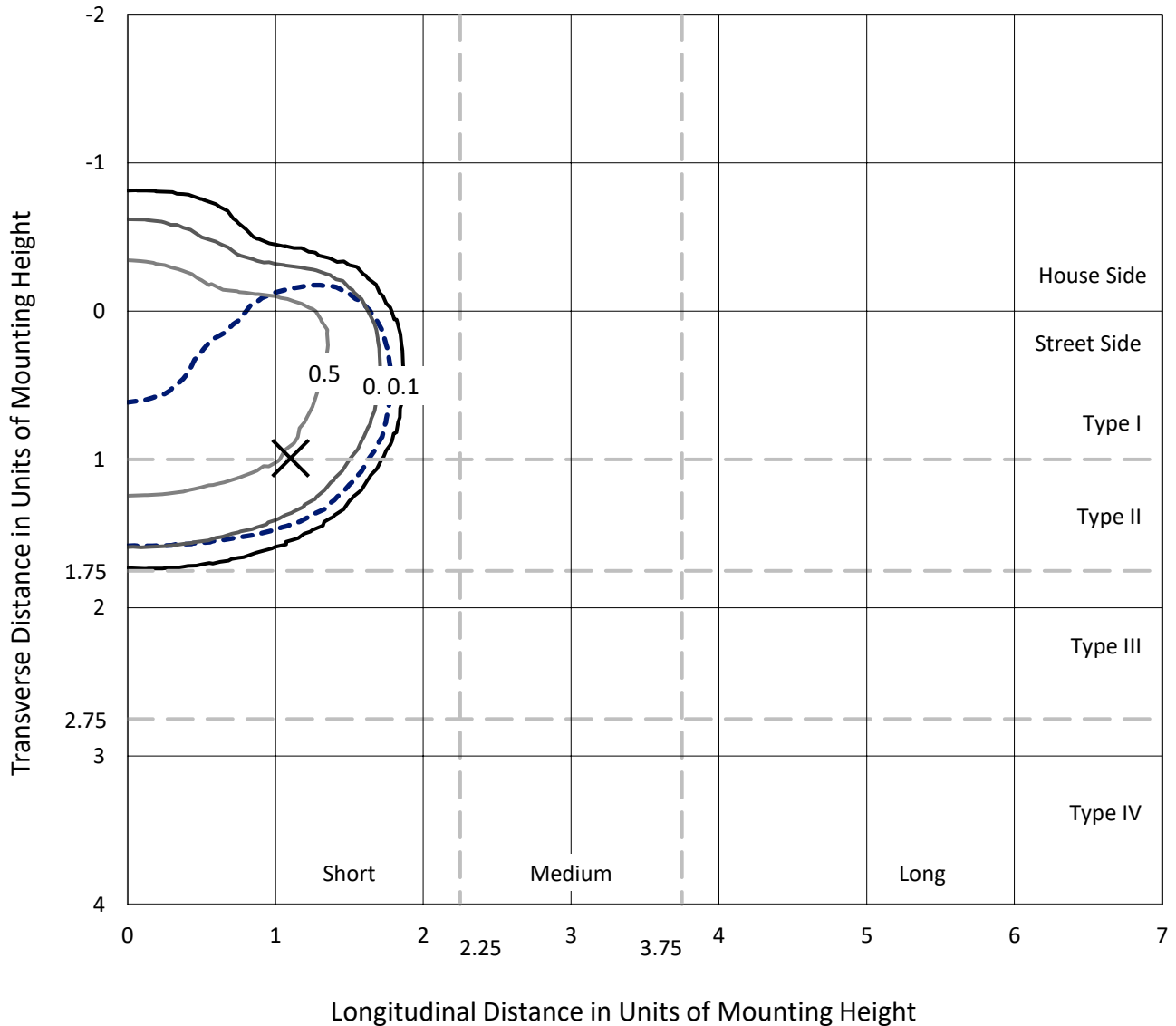
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

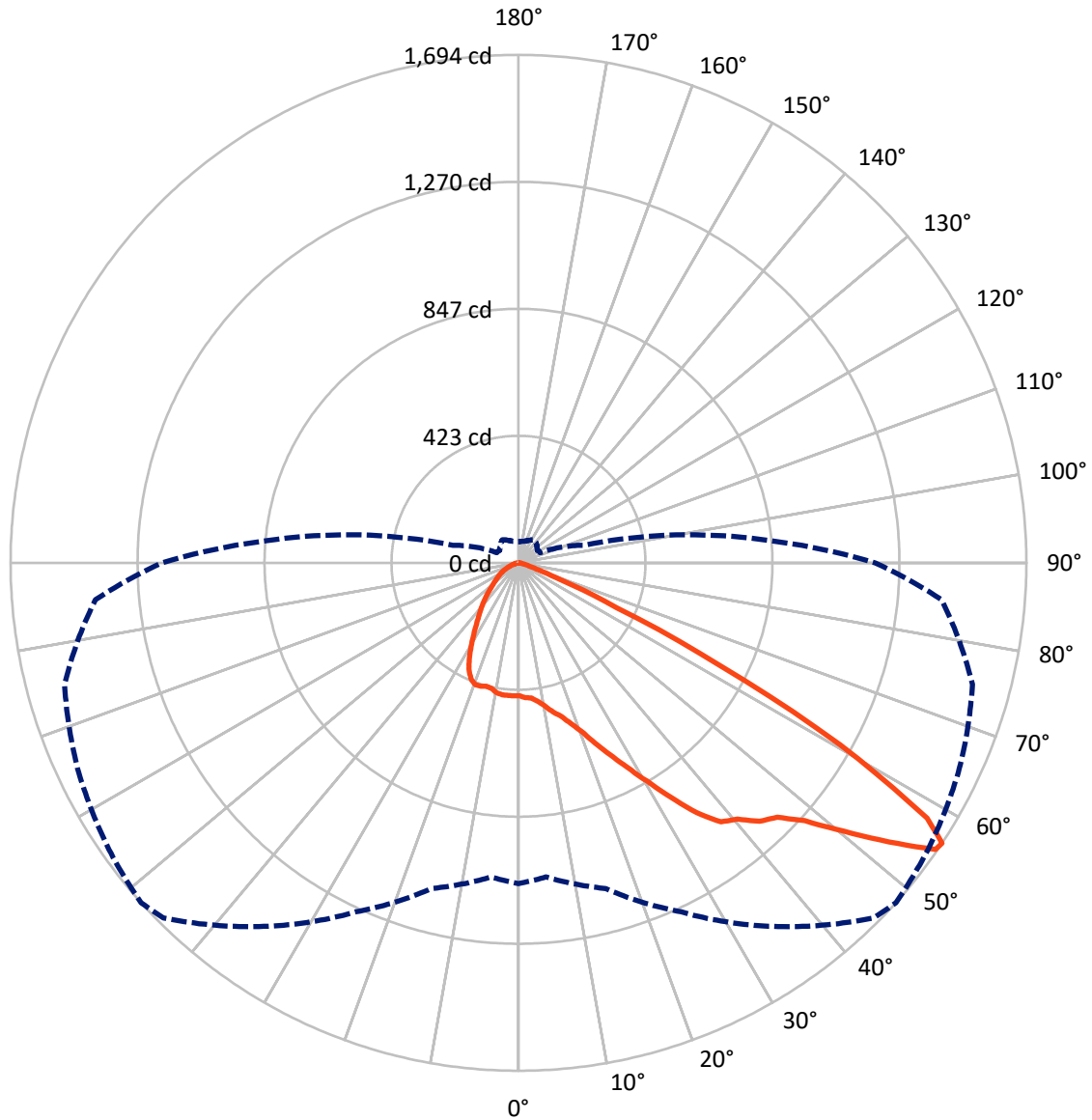
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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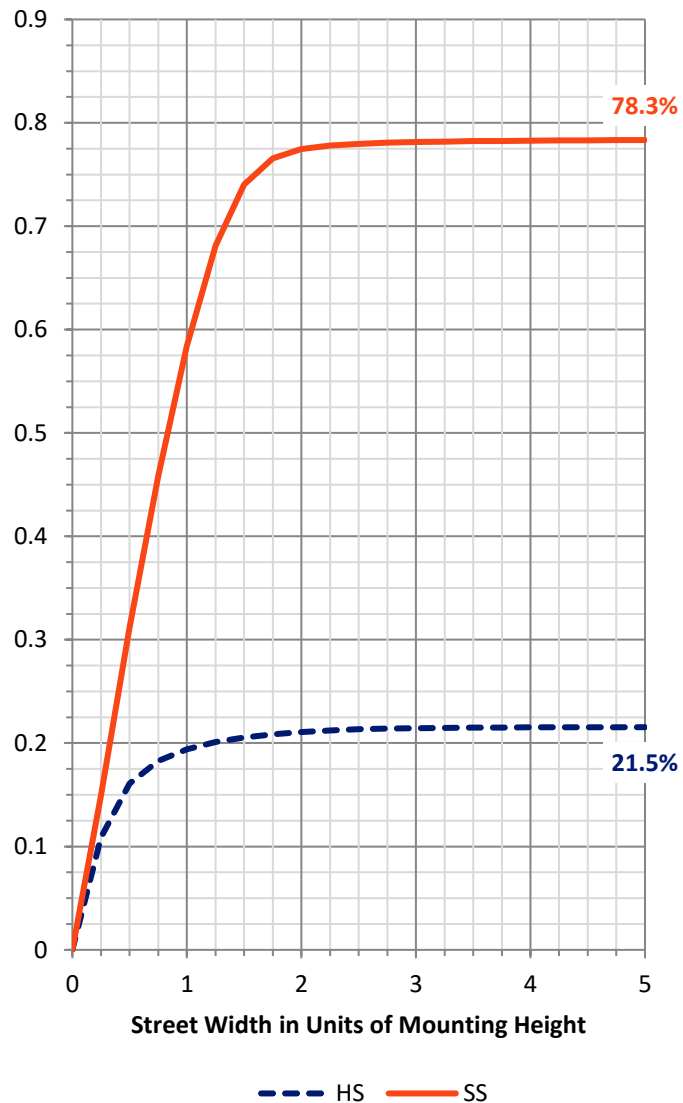
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	505.3	0.0	505.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	1818.3	0.0	1818.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	2323.7	0.0	2323.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.9
10°-20°	138.2	5.9
20°-30°	250.6	10.8
30°-40°	393.7	16.9
40°-50°	574.3	24.7
50°-60°	691.9	29.8
60°-70°	202.6	8.7
70°-80°	25.7	1.1
80°-90°	3.6	0.2
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°	2323.7	100.0
0°-180°	2323.7	100.0

Coefficient of Utilization

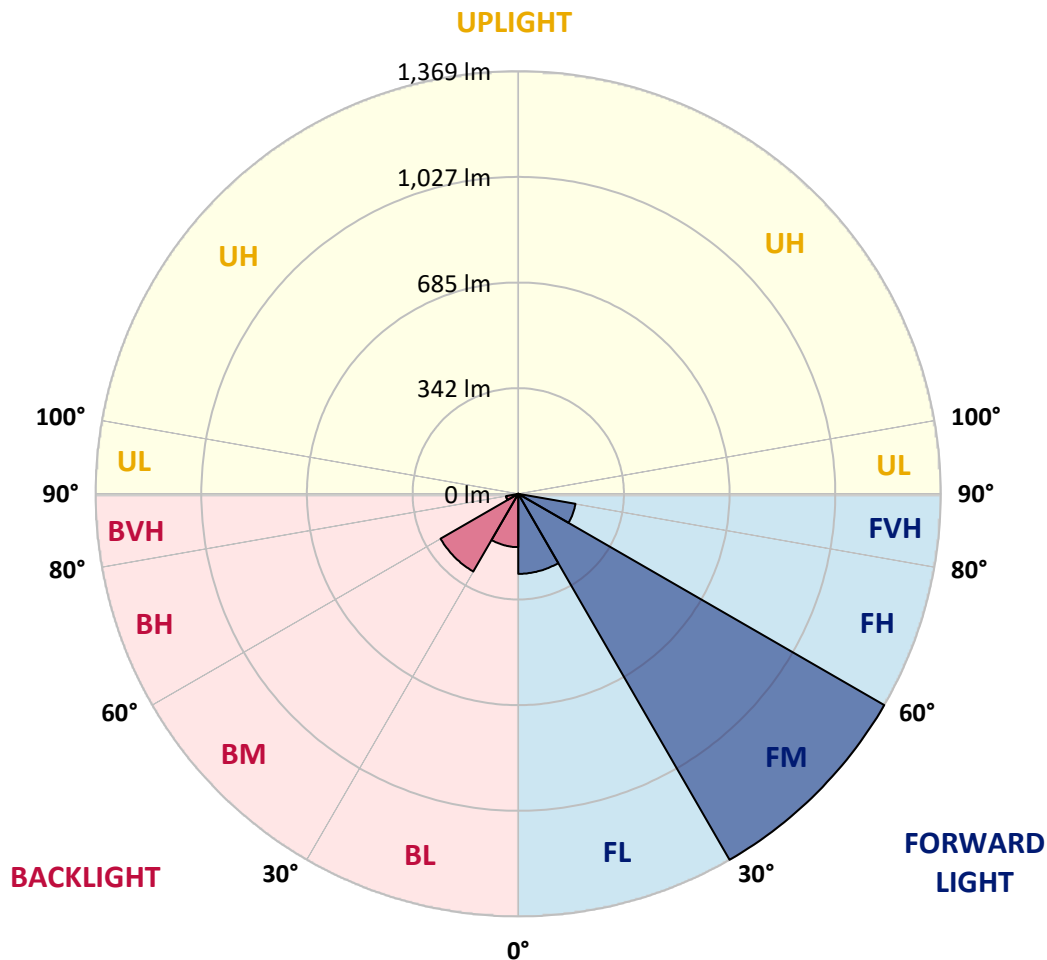


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.3	11.2			
FM (30°-60°)	1369.1	58.9			
FH (60°-80°)	188.1	8.1			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	172.7	7.4	B1/500		
BM (30°-60°)	290.7	12.5	B1/1000		
BH (60°-80°)	40.2	1.7	B0/110		G0/110
BVH (80°-90°)	1.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8
2.5°	451.9	449.8	449.8	446.4	450.2	448.5	449.8	445.5	449.8	443.4	448.5
5°	454.0	454.4	452.7	454.8	454.8	457.3	453.1	456.9	459.0	454.4	452.3
7.5°	465.0	465.8	465.4	463.7	467.1	466.7	466.3	463.3	464.1	462.5	459.9
10°	486.5	486.1	488.3	484.0	481.5	484.4	485.3	480.6	477.3	476.0	467.9
12.5°	517.9	512.8	509.8	505.6	506.9	502.7	510.2	502.2	500.5	492.9	484.8
15°	543.3	542.4	542.9	536.1	528.5	530.2	530.2	525.9	523.4	514.0	502.7
17.5°	595.3	577.5	581.3	572.9	566.5	566.1	562.3	563.1	556.4	536.9	519.6
20°	635.9	628.3	622.3	608.0	598.3	601.2	599.5	595.3	593.2	567.8	543.3
22.5°	672.3	674.8	665.1	661.3	647.7	649.0	652.4	648.6	632.5	606.3	569.9
25°	723.5	720.6	707.4	702.7	690.0	694.8	707.9	704.8	694.8	647.3	590.6
27.5°	784.0	773.8	776.4	755.2	742.9	756.1	771.7	786.5	757.7	695.6	615.2
30°	826.7	816.1	815.3	814.4	811.5	826.7	845.0	858.5	835.2	743.8	655.8
32.5°	847.9	850.4	857.6	855.0	880.9	912.1	931.2	950.7	921.5	822.5	709.6
35°	904.2	888.1	904.2	905.8	932.5	998.9	1023.1	1069.6	1062.4	933.8	775.1
37.5°	937.1	935.9	938.0	954.1	979.8	1061.9	1096.2	1132.2	1118.7	1000.6	856.7
40°	991.7	995.2	994.7	1006.9	1035.3	1109.4	1123.3	1152.5	1153.8	1093.3	976.9
42.5°	1079.3	1065.8	1056.9	1069.6	1109.4	1150.4	1178.3	1172.4	1214.2	1205.8	1131.3
45°	1158.0	1166.0	1152.9	1174.1	1188.5	1210.5	1209.6	1222.3	1275.6	1315.8	1247.7
47.5°	1231.6	1236.7	1243.1	1257.5	1288.7	1292.1	1285.0	1279.4	1353.1	1394.5	1337.8
50°	1275.6	1280.3	1309.9	1335.7	1394.1	1401.7	1405.9	1391.9	1441.9	1446.5	1422.9
52.5°	1263.8	1268.8	1310.3	1395.4	1488.4	1558.3	1545.6	1521.9	1518.9	1537.1	1501.5
55°	1158.8	1154.2	1211.3	1343.7	1518.1	1685.6	1687.3	1662.3	1614.6	1602.3	1489.7
56°	1069.6	1051.4	1124.2	1284.1	1480.0	1674.6	1693.6	1666.9	1622.1	1567.1	1416.5
57.5°	876.2	893.6	965.9	1098.3	1348.4	1595.5	1606.5	1600.2	1566.3	1474.0	1246.4
60°	483.2	513.6	577.5	739.6	960.0	1224.4	1233.3	1285.0	1291.3	1128.8	857.6
62.5°	205.2	201.8	268.3	387.5	546.6	739.2	755.6	808.5	818.3	650.7	430.3
65°	83.3	88.0	121.4	195.0	289.0	336.8	360.0	377.4	409.6	268.7	158.7
67.5°	55.0	54.6	71.5	111.3	155.7	150.2	150.2	158.7	146.8	109.6	68.5
70°	39.4	40.6	51.2	77.0	96.9	71.9	69.0	66.0	74.8	72.3	55.4
72.5°	25.8	27.5	34.2	46.1	50.4	39.4	39.4	47.3	61.8	58.4	45.2
75°	16.9	17.3	21.2	26.7	25.0	20.3	22.5	31.7	44.8	43.1	32.1
77.5°	11.4	11.9	14.4	17.3	14.0	11.4	12.3	16.1	22.0	22.0	16.9
80°	4.2	4.6	5.9	5.5	6.3	8.1	8.9	11.0	13.1	13.1	11.4
82.5°	0.0	0.4	1.3	2.9	4.6	6.3	7.2	8.5	9.8	11.0	10.6
85°	0.0	0.4	1.3	2.1	3.4	3.8	4.2	2.9	2.5	2.5	2.1
87.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4	0.4
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°	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8
2.5°	443.8	443.4	443.4	442.1	444.6	443.4	444.2	443.8	438.3	442.5	439.6
5°	448.5	451.4	446.8	445.9	442.5	443.8	443.8	439.6	443.4	443.0	442.1
7.5°	460.4	455.2	450.2	445.1	444.2	443.0	438.3	436.6	439.6	436.2	441.3
10°	465.4	466.3	458.6	451.9	445.5	436.6	430.3	426.5	421.8	426.9	429.8
12.5°	488.7	480.2	467.1	456.5	435.0	426.1	419.7	418.0	426.1	427.7	424.8
15°	496.7	495.4	478.5	454.8	432.4	421.8	423.1	419.7	420.6	416.3	417.1
17.5°	513.2	498.8	478.9	449.3	431.9	429.4	421.8	408.3	400.7	397.3	400.2
20°	531.4	517.5	488.7	451.4	435.8	429.0	404.0	387.5	371.9	363.4	363.9
22.5°	547.5	530.2	484.4	452.3	439.2	411.2	381.2	348.6	329.2	316.0	316.5
25°	566.9	542.4	486.1	454.0	430.3	382.9	339.8	308.0	284.8	275.8	278.8
27.5°	577.9	550.0	495.4	457.8	407.0	342.7	296.2	266.5	253.0	248.8	248.3
30°	611.0	566.9	506.9	450.2	368.1	299.6	256.4	238.2	225.1	221.3	222.1
32.5°	660.0	597.9	521.7	430.3	328.3	261.0	230.6	217.1	204.8	197.6	196.7
35°	701.1	650.7	537.3	399.4	282.2	231.4	212.4	195.4	176.9	168.8	166.7
37.5°	779.4	710.4	534.0	352.9	238.2	209.4	192.9	172.2	156.1	145.2	143.8
40°	883.4	780.2	517.5	296.2	205.6	190.0	172.2	152.3	132.5	123.1	122.3
42.5°	1010.0	865.6	487.4	238.6	173.1	170.5	154.4	131.6	113.8	107.1	107.5
45°	1112.7	938.8	456.9	191.7	148.9	151.5	137.5	115.9	103.7	98.1	98.1
47.5°	1204.1	988.3	423.9	158.3	126.5	132.5	120.2	107.5	96.9	92.7	91.8
50°	1292.1	1038.7	390.9	128.2	107.9	113.8	112.5	102.3	93.9	88.8	89.3
52.5°	1347.1	1046.7	349.0	105.0	94.4	101.1	105.4	96.0	86.7	83.8	82.9
55°	1279.8	943.1	270.8	86.3	80.0	88.8	96.9	86.3	79.1	74.0	73.6
56°	1189.3	843.2	226.3	79.6	75.8	85.4	93.9	82.5	74.4	71.5	69.4
57.5°	1006.9	690.0	167.1	70.6	70.2	79.6	89.3	78.7	69.4	66.9	66.9
60°	627.9	388.4	101.1	59.2	60.9	70.6	80.4	70.2	61.8	61.8	63.1
62.5°	286.0	161.6	61.3	50.4	52.5	60.9	71.5	63.5	58.8	63.5	64.3
65°	97.3	69.8	44.4	40.2	41.5	50.4	61.3	64.3	63.9	66.9	68.5
67.5°	54.6	44.8	37.3	33.4	32.5	37.3	50.4	64.3	61.8	60.5	61.3
70°	46.1	38.1	33.0	29.6	28.3	30.0	38.9	48.7	43.6	42.3	41.5
72.5°	37.3	31.7	28.8	26.7	22.9	19.4	17.7	18.6	20.8	22.0	24.1
75°	26.2	24.1	24.1	21.6	16.5	12.3	9.8	8.1	5.5	3.8	4.2
77.5°	14.8	14.8	15.2	13.1	10.6	8.1	5.9	4.2	2.1	0.8	0.4
80°	10.2	11.0	11.9	10.6	8.9	7.2	5.0	2.9	1.3	0.0	0.0
82.5°	10.2	11.4	12.3	10.6	8.9	6.7	5.0	2.9	1.3	0.4	0.0
85°	2.1	2.5	2.9	3.4	5.0	5.0	3.8	2.5	1.3	0.4	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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)