

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: P651703

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3859.3 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

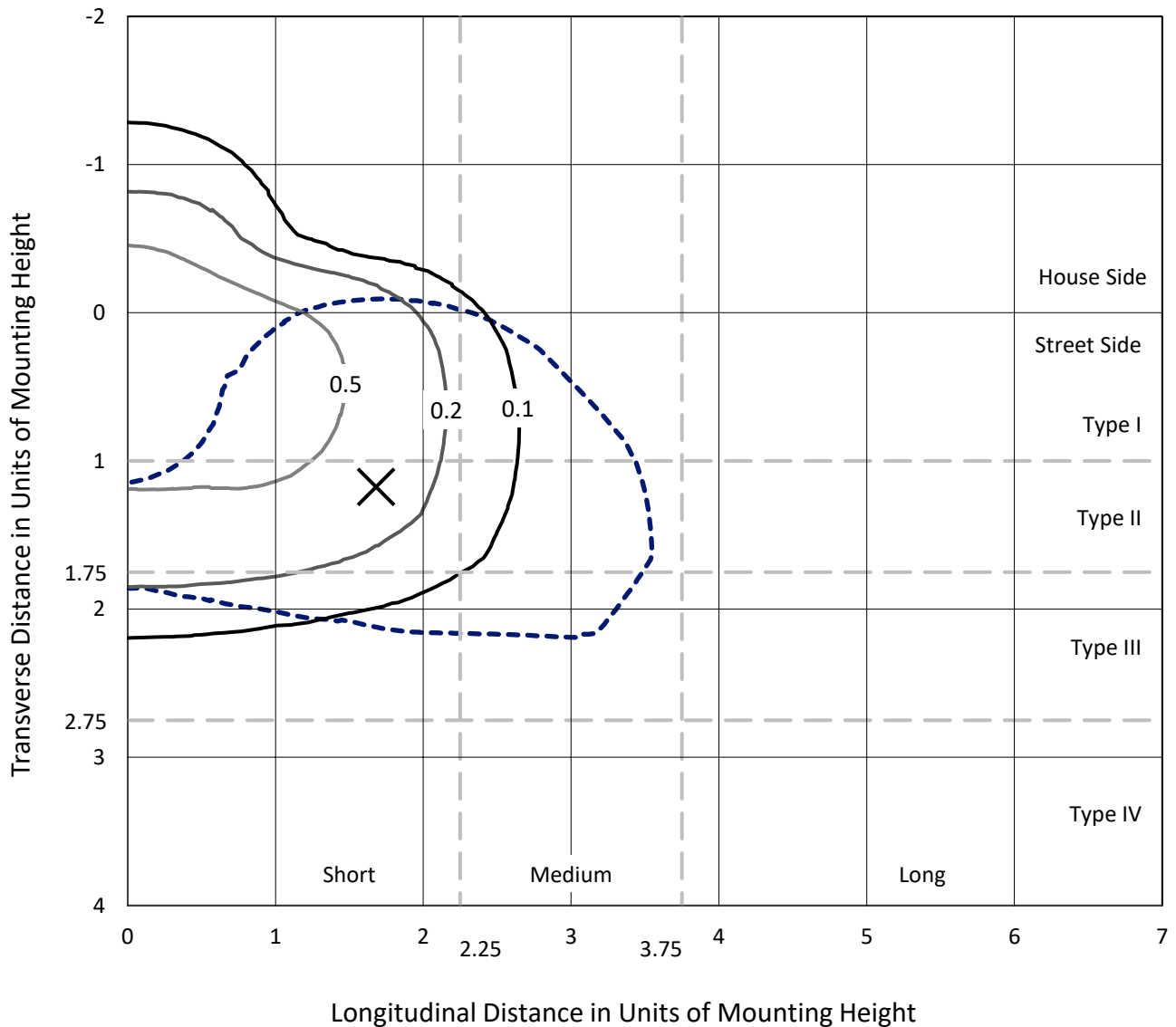
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651703
 CATALOG NUMBER: GALN-SA1A-840-U-T3

Iso-Footcandle Lines of Horizontal Illumination

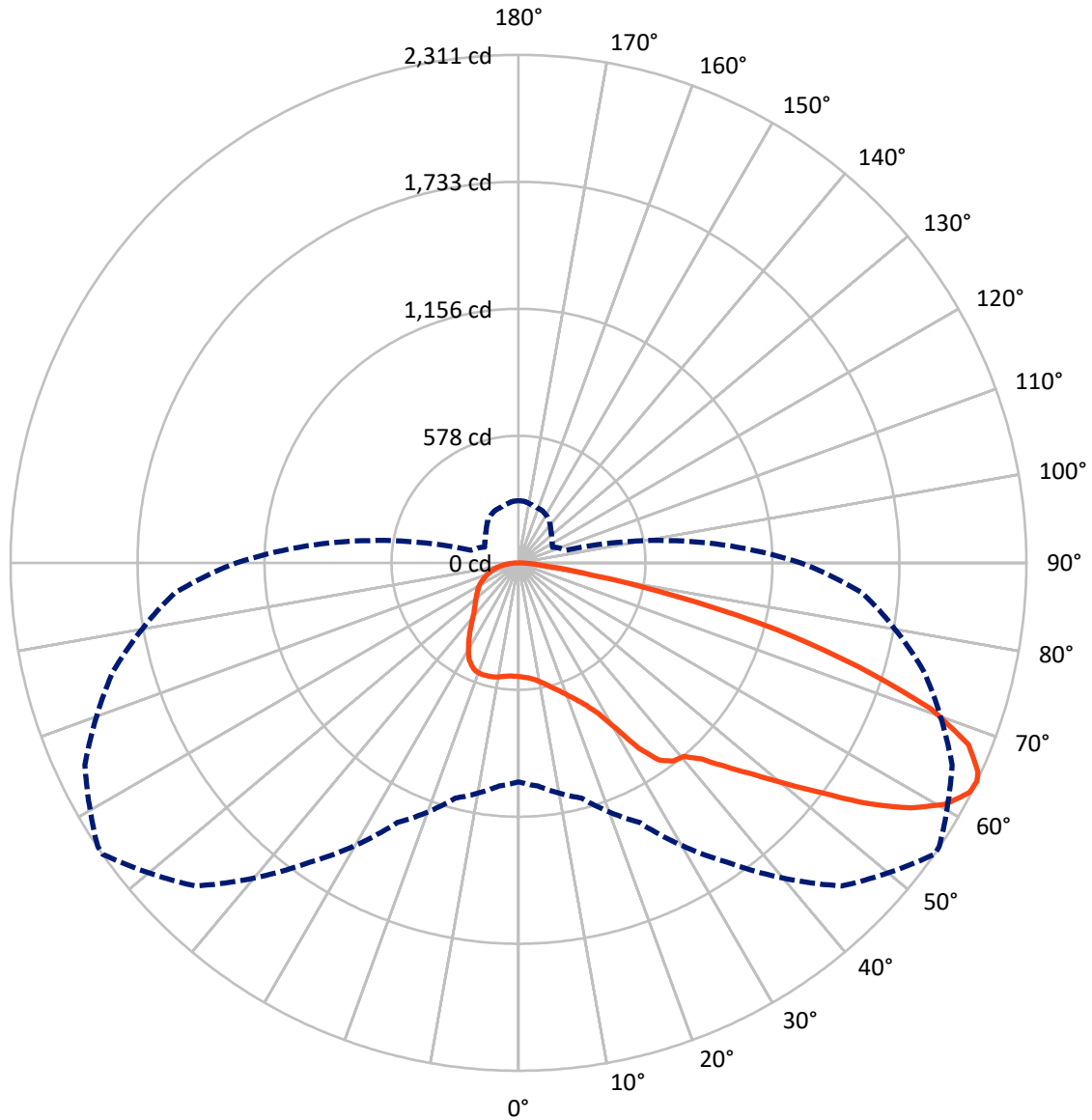
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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 CATALOG NUMBER: GALN-SA1A-840-U-T3

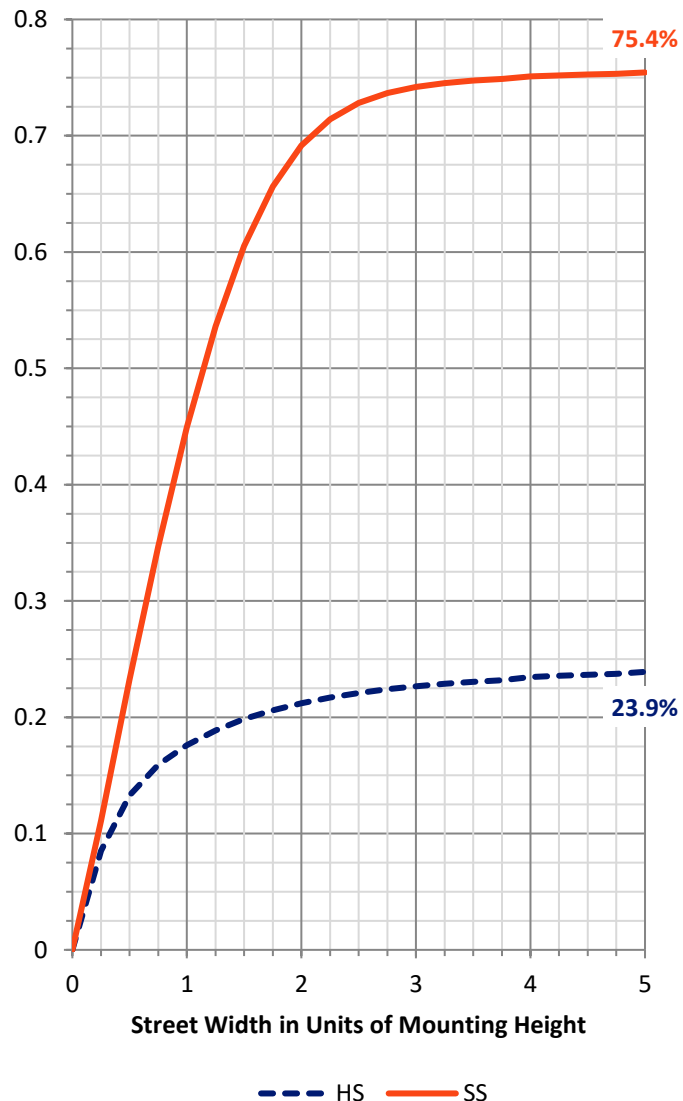
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	937.5	0.0	937.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	2921.8	0.0	2921.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	3859.3	0.0	3859.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.3
10°-20°	158.9	4.1
20°-30°	282.9	7.3
30°-40°	435.3	11.3
40°-50°	617.1	16.0
50°-60°	893.3	23.1
60°-70°	924.4	24.0
70°-80°	432.9	11.2
80°-90°	64.1	1.7
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°	3859.3	100.0
0°-180°	3859.3	100.0

Coefficient of Utilization

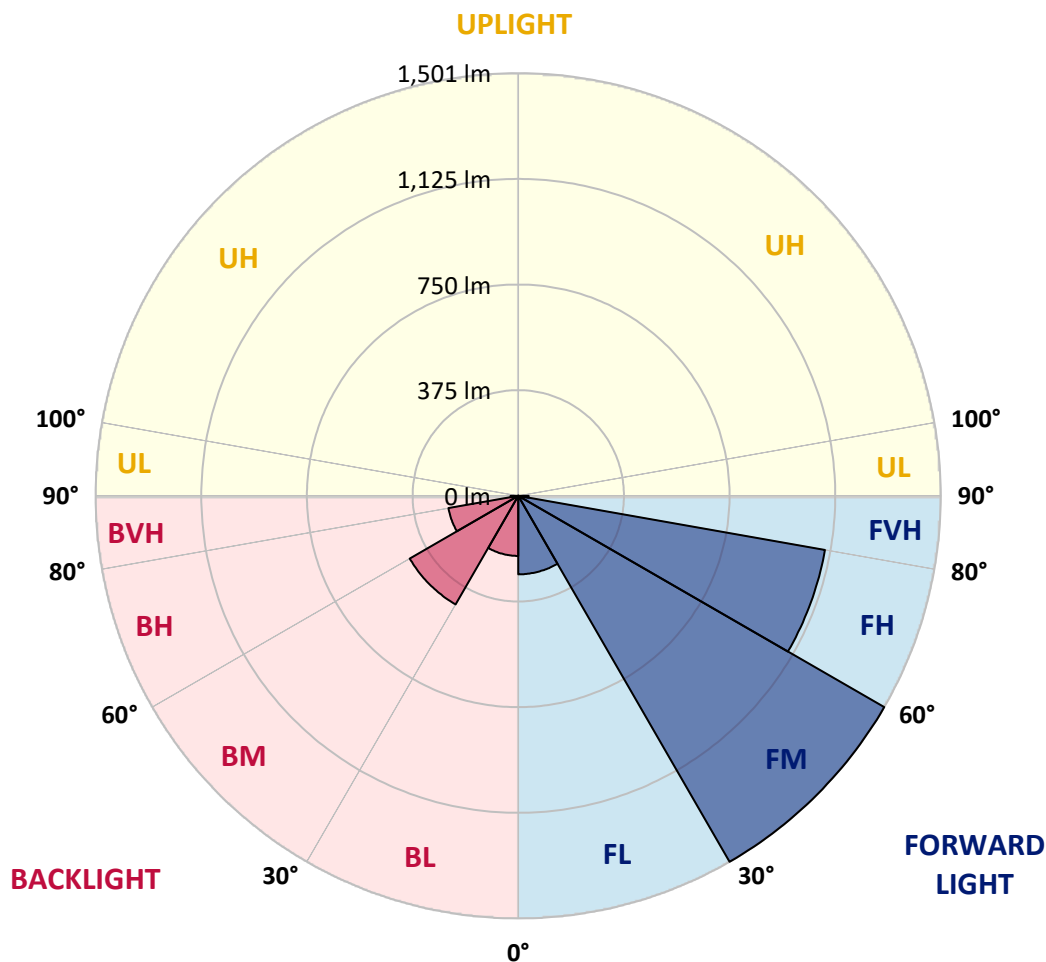


REPORT NUMBER: P651703
 CATALOG NUMBER: GALN-SA1A-840-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.7	7.2			
FM (30°-60°)	1500.6	38.9			
FH (60°-80°)	1105.8	28.7			G1/1800
FVH (80°-90°)	36.7	1.0			G1/100
BL (0°-30°)	213.5	5.5	B1/500		
BM (30°-60°)	445.1	11.5	B1/1000		
BH (60°-80°)	251.5	6.5	B1/500		G1/500
BVH (80°-90°)	27.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Short





REPORT NUMBER: P651703
 CATALOG NUMBER: GALN-SA1A-840-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	523.6	523.4	524.0	523.4	523.9	522.3	521.7	522.1	521.5	520.4	518.5
5°	530.1	529.8	530.1	529.2	529.7	528.8	527.3	527.7	526.6	524.3	521.5
7.5°	541.0	540.2	540.2	540.0	539.1	537.8	536.7	536.3	535.2	532.2	527.9
10°	555.2	555.2	555.5	553.7	554.8	552.5	551.4	551.2	547.5	543.6	537.6
12.5°	574.0	575.0	574.4	573.6	573.1	572.2	568.6	569.4	565.3	558.7	551.4
15°	597.2	598.9	597.9	597.4	596.4	593.1	591.6	591.0	585.6	575.9	566.2
17.5°	628.0	625.8	624.9	623.9	619.3	617.0	614.4	613.9	609.2	597.9	582.8
20°	654.8	657.8	656.1	655.1	650.5	646.1	644.1	643.4	639.3	626.9	602.7
22.5°	686.9	687.5	688.2	685.6	683.5	680.0	676.6	675.5	674.0	661.1	631.6
25°	721.1	723.7	721.5	719.0	716.4	716.2	719.4	719.0	718.3	705.9	669.9
27.5°	776.8	779.2	779.9	777.0	767.2	768.0	775.3	777.7	787.6	766.9	719.1
30°	808.2	810.6	815.9	826.5	842.2	856.0	873.6	879.0	888.4	849.5	777.7
32.5°	827.6	828.5	838.1	857.7	904.8	956.2	1004.2	1006.2	1012.1	957.6	831.2
35°	858.2	858.7	866.6	888.0	943.3	1029.0	1103.1	1105.5	1100.6	991.1	856.2
37.5°	895.7	897.5	902.5	920.3	986.3	1089.9	1144.3	1142.5	1098.7	1017.8	900.3
40°	950.7	950.7	944.9	968.9	1031.7	1124.7	1158.6	1155.6	1144.0	1095.0	967.4
42.5°	999.0	998.2	1012.0	1028.3	1088.5	1178.5	1219.1	1224.1	1243.3	1192.0	1043.8
45°	1062.1	1066.0	1073.7	1103.4	1185.1	1270.3	1322.8	1327.5	1354.7	1306.2	1133.1
47.5°	1125.8	1127.0	1151.3	1190.9	1304.7	1394.9	1437.9	1445.7	1470.4	1439.9	1229.2
50°	1170.9	1183.2	1222.1	1284.5	1428.0	1546.8	1580.3	1589.6	1633.2	1585.3	1341.3
52.5°	1218.7	1230.7	1278.3	1373.4	1569.6	1702.1	1743.4	1749.6	1795.0	1732.4	1455.9
55°	1259.6	1270.8	1324.7	1452.1	1682.3	1860.6	1935.5	1928.2	1949.9	1845.7	1544.4
57.5°	1266.2	1275.3	1343.2	1502.4	1767.0	1996.6	2103.9	2108.2	2083.1	1930.5	1617.3
60°	1214.6	1233.1	1311.2	1497.1	1805.1	2091.2	2229.6	2232.6	2161.1	1974.0	1646.3
62.5°	1123.2	1121.2	1215.7	1410.6	1751.8	2112.8	2303.6	2300.3	2191.7	1953.1	1618.2
64°	996.9	1020.1	1108.4	1304.3	1665.7	2079.6	2311.3	2309.6	2177.1	1909.7	1570.2
65°	919.9	918.6	1005.8	1217.4	1580.1	2029.8	2297.5	2295.2	2146.6	1870.7	1533.0
67.5°	664.1	667.1	753.1	939.5	1284.5	1834.6	2207.9	2199.0	2026.1	1741.6	1391.4
70°	402.3	404.0	471.5	623.2	922.0	1483.1	1990.1	1990.6	1841.7	1548.9	1184.3
72.5°	211.9	216.4	243.6	353.9	559.9	1040.6	1614.6	1652.8	1581.2	1322.0	935.6
75°	117.9	118.5	137.7	174.5	285.7	582.3	1213.6	1224.5	1251.8	1064.0	691.8
77.5°	89.9	91.2	97.2	112.7	155.5	270.0	734.4	789.5	882.2	750.2	394.8
80°	72.9	74.3	79.4	88.6	103.4	128.0	341.2	370.9	472.2	333.0	154.1
82.5°	56.8	55.9	62.6	68.6	75.3	75.7	140.0	154.9	192.3	143.3	66.7
85°	42.1	42.1	47.5	46.3	48.6	44.3	61.7	68.2	77.0	60.9	30.9
87.5°	16.8	18.5	31.2	28.0	21.7	17.4	22.8	24.1	26.7	23.9	12.9
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: P651703
 CATALOG NUMBER: GALN-SA1A-840-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	518.6	519.3	517.8	516.7	516.3	515.6	515.0	515.2	516.1	517.0	516.7
5°	521.3	521.5	518.9	517.6	516.7	515.9	515.9	516.5	518.2	519.6	519.6
7.5°	527.7	527.7	524.0	521.7	520.4	518.9	518.5	518.6	520.0	521.7	521.9
10°	537.8	537.0	532.2	528.6	526.2	522.5	519.3	517.6	518.2	519.3	519.3
12.5°	550.1	547.7	541.7	536.7	530.9	524.0	517.4	513.9	513.7	514.8	514.4
15°	563.2	560.6	552.2	543.2	533.1	522.9	515.0	510.1	506.2	505.1	507.5
17.5°	578.4	573.1	561.5	549.0	534.0	520.8	508.4	498.2	491.3	489.4	490.1
20°	596.9	589.9	574.2	554.6	533.3	513.1	493.8	480.1	468.9	465.5	466.0
22.5°	622.6	610.3	587.3	557.4	527.9	498.5	471.5	453.9	440.3	435.0	438.2
25°	651.6	638.3	599.8	556.7	513.9	475.0	445.3	422.3	410.1	402.1	403.8
27.5°	691.6	668.0	613.1	550.9	493.9	446.4	412.0	390.2	379.0	375.0	376.9
30°	742.9	706.4	627.6	535.2	462.3	410.2	378.4	364.2	357.5	352.4	354.1
32.5°	779.9	733.6	630.8	508.8	428.1	377.4	355.6	345.1	337.7	332.8	333.9
35°	806.3	756.6	629.2	476.3	392.4	350.2	337.5	328.9	317.1	306.4	304.4
37.5°	841.8	785.4	618.3	440.8	357.1	331.9	322.9	307.0	290.0	275.6	274.9
40°	896.3	819.2	594.8	399.1	327.0	318.4	307.4	286.8	268.4	256.8	256.0
42.5°	952.3	850.4	563.0	355.2	302.3	304.2	290.8	270.4	259.2	251.7	250.9
45°	1021.0	884.1	528.6	317.1	284.0	290.8	276.4	264.6	257.9	253.0	251.7
47.5°	1095.2	918.8	489.9	282.9	268.4	278.6	270.4	265.0	261.4	257.9	256.4
50°	1175.2	957.6	453.5	255.3	254.5	265.9	269.8	267.9	265.7	264.6	263.3
52.5°	1263.0	997.1	422.9	236.0	242.2	256.8	270.0	271.5	271.5	270.8	270.0
55°	1322.4	1024.7	392.0	220.3	229.8	249.5	269.5	275.3	277.5	276.7	275.8
57.5°	1366.3	1039.7	353.1	206.7	219.2	242.5	267.2	275.8	278.0	279.0	278.6
60°	1375.3	1025.7	302.0	192.5	207.8	232.1	258.6	269.4	272.1	278.8	279.5
62.5°	1334.7	982.7	251.3	178.5	193.9	216.4	247.0	262.1	267.6	278.0	279.0
64°	1284.7	934.5	223.1	169.7	184.8	207.6	241.1	260.1	267.4	281.1	282.1
65°	1248.1	899.4	205.5	164.2	179.0	201.8	237.9	260.7	269.4	286.1	287.4
67.5°	1113.5	778.8	170.0	151.0	165.3	191.9	238.6	266.1	268.9	288.0	287.9
70°	921.4	620.0	142.4	138.9	151.9	183.9	236.0	257.5	257.7	270.4	267.4
72.5°	689.9	458.2	123.5	126.5	137.0	165.0	222.9	245.9	242.2	244.0	240.9
75°	473.9	303.1	106.3	113.1	121.5	145.8	204.4	223.3	217.5	215.4	213.2
77.5°	253.0	167.6	88.4	100.0	105.6	126.1	178.4	196.6	190.6	182.2	179.4
80°	102.4	79.0	71.2	82.8	86.0	101.5	148.4	159.9	155.3	140.7	136.0
82.5°	51.4	47.3	55.9	65.2	65.4	72.5	110.3	121.1	111.0	93.2	89.1
85°	26.9	27.8	38.5	45.8	40.5	39.2	66.3	73.3	67.4	58.5	52.7
87.5°	9.7	11.2	20.2	20.0	14.2	7.6	14.6	7.1	3.9	2.4	3.0
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)