

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: P651699

Luminaire Tested: **GALN-SA1A-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
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-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2366.6 lumens
Efficiency: N/A
Efficacy: 71.7 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

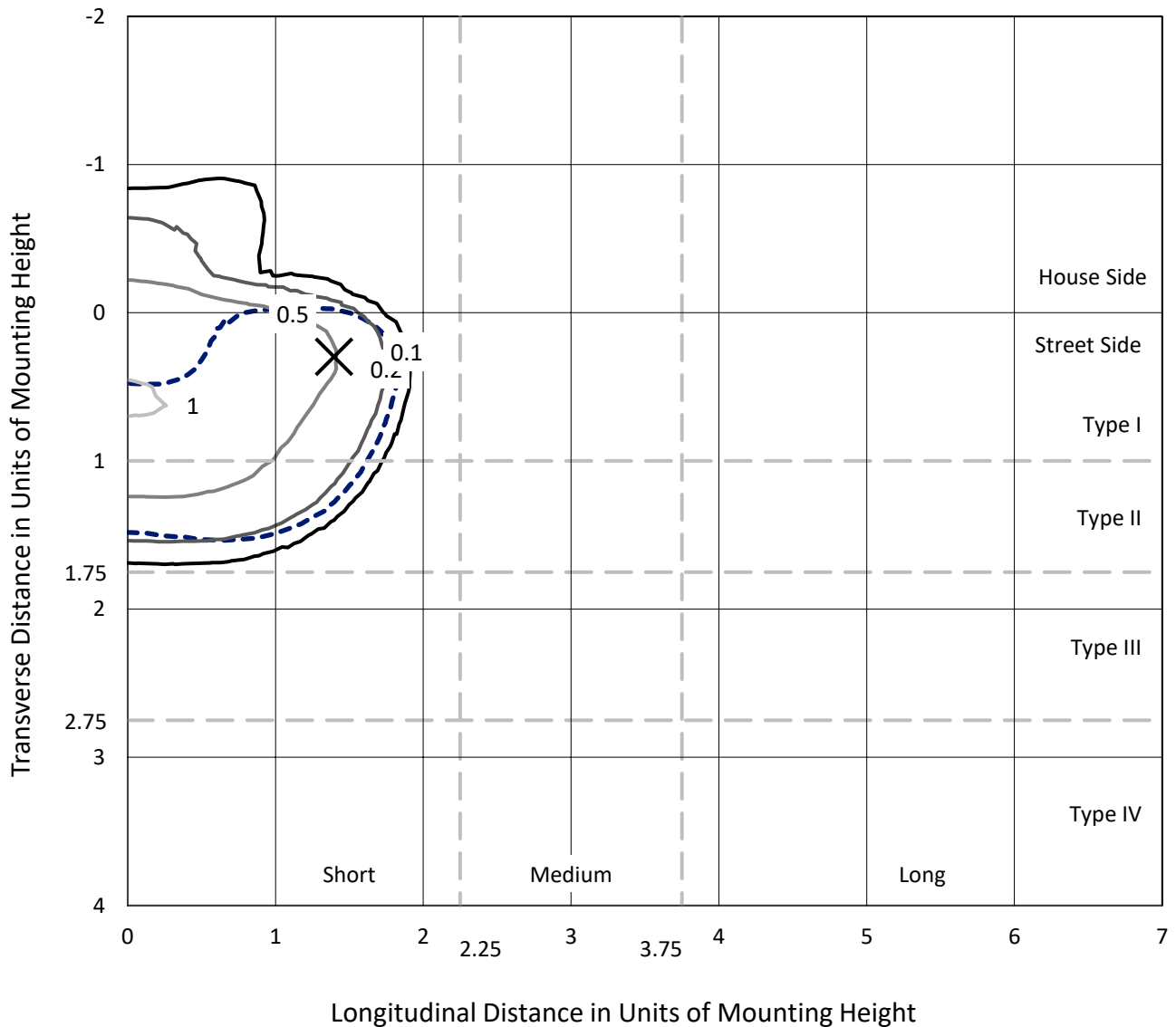
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

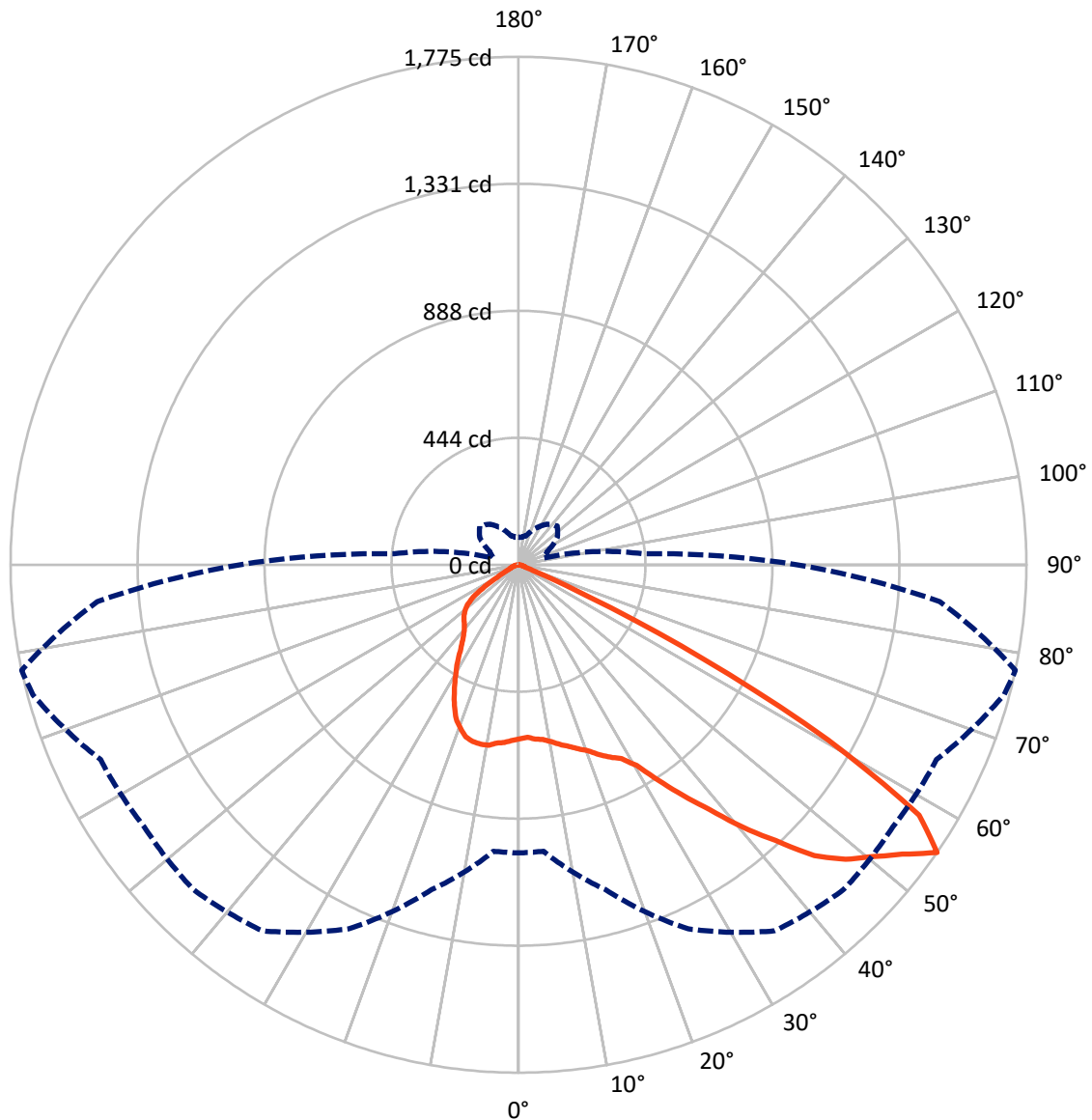
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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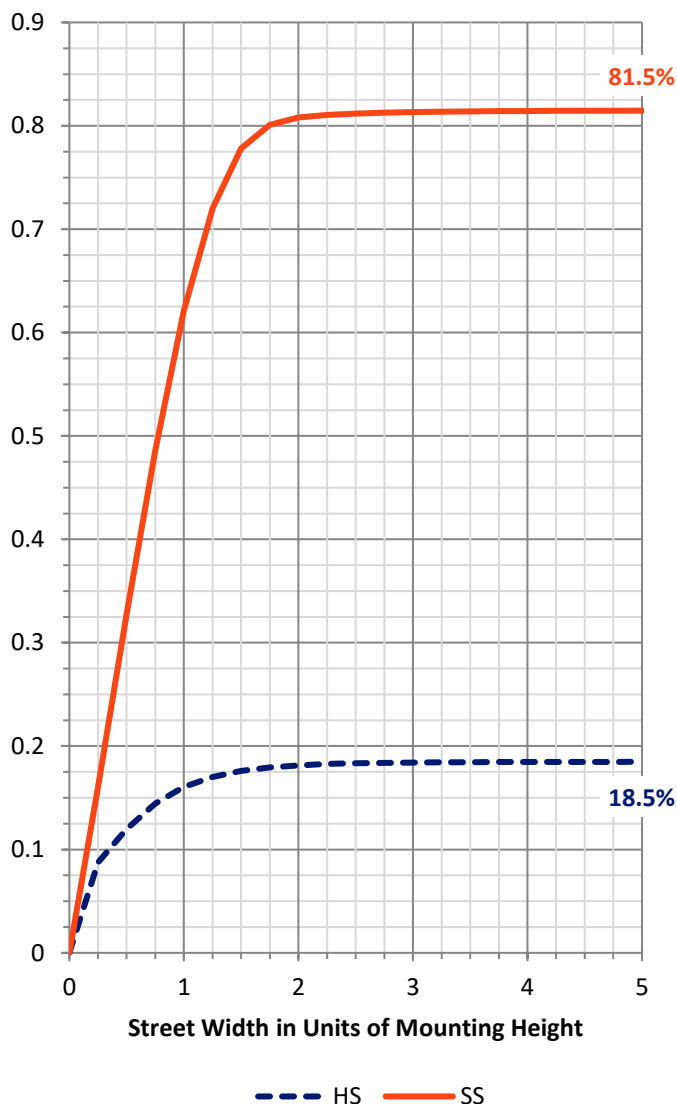
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	439.6	0.0	439.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	1927.0	0.0	1927.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	2366.6	0.0	2366.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	2.3
10°-20°	143.6	6.1
20°-30°	251.7	10.6
30°-40°	415.0	17.5
40°-50°	603.9	25.5
50°-60°	684.2	28.9
60°-70°	195.6	8.3
70°-80°	15.2	0.6
80°-90°	3.1	0.1
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°	2366.6	100.0
0°-180°	2366.6	100.0

Coefficient of Utilization

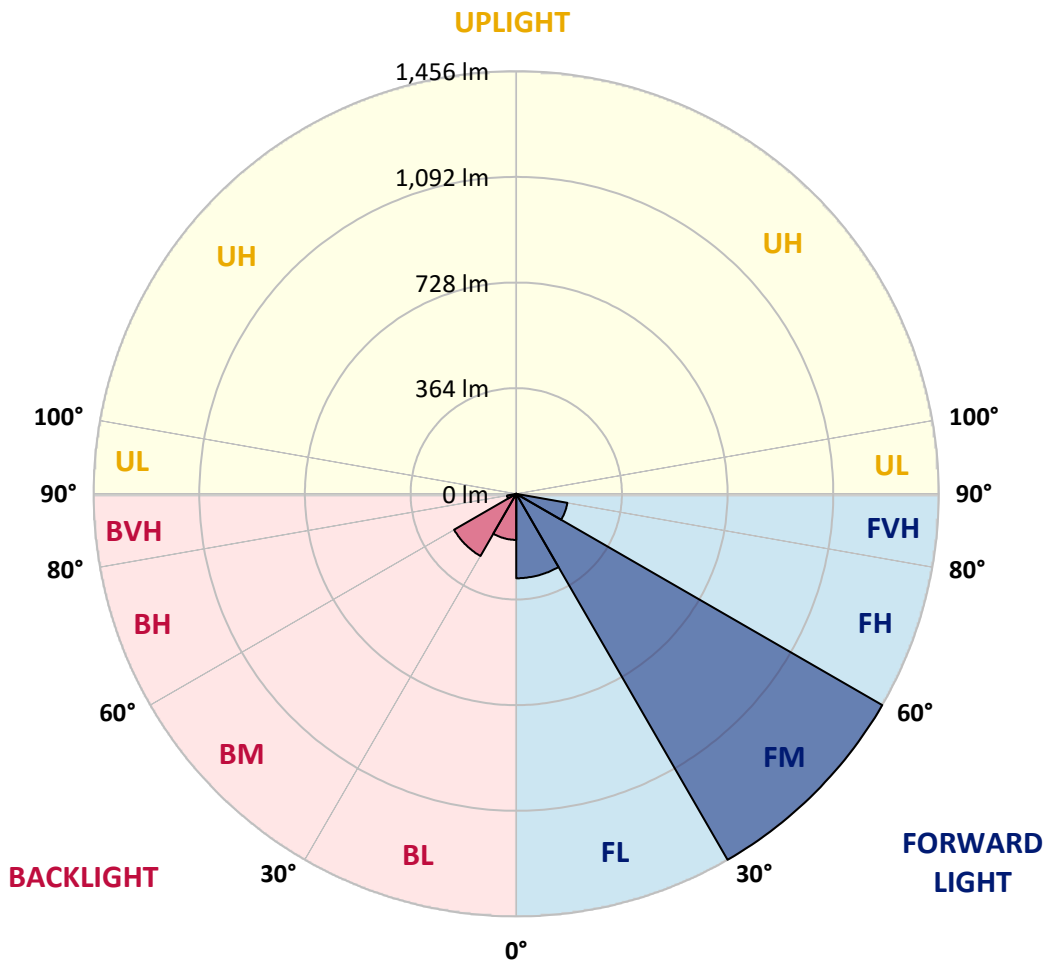


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	290.9	12.3			
FM (30°-60°)	1455.8	61.5			
FH (60°-80°)	178.7	7.6			G0/660
FVH (80°-90°)	1.5	0.1			G0/10
BL (0°-30°)	158.6	6.7	B1/500		
BM (30°-60°)	247.3	10.4	B1/1000		
BH (60°-80°)	32.1	1.4	B0/110		G0/110
BVH (80°-90°)	1.6	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°	55°	65°	75°	78°	85°
0°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5
2.5°	572.0	577.6	578.4	585.2	584.7	596.2	599.5	600.0	607.6	603.8	613.5
5°	556.0	553.0	551.8	563.6	567.0	577.2	585.6	590.7	606.4	611.8	622.0
7.5°	541.6	541.6	542.4	553.0	551.8	564.9	573.7	589.4	612.2	616.9	629.2
10°	527.6	522.5	528.9	539.9	549.2	555.1	573.7	588.5	615.2	628.7	645.7
12.5°	520.4	523.0	523.9	531.8	542.0	559.8	569.9	594.5	636.4	644.4	662.6
15°	565.7	560.6	548.3	541.2	549.6	558.1	583.5	608.5	647.4	658.8	679.1
17.5°	618.2	613.9	603.8	584.3	565.3	581.0	600.8	623.7	659.3	676.2	706.2
20°	686.8	679.9	669.8	631.8	615.2	598.3	619.5	646.6	678.7	693.9	724.8
22.5°	768.4	768.4	745.5	699.5	665.1	649.1	657.9	673.6	700.3	721.0	751.4
25°	853.4	850.9	830.2	782.4	724.4	705.3	715.5	726.5	733.7	745.1	765.4
27.5°	950.8	935.9	909.7	856.8	805.6	768.8	779.8	770.1	761.2	767.1	796.3
30°	1016.8	1026.1	992.6	941.8	893.6	852.6	854.7	846.2	805.6	814.1	831.4
32.5°	1085.3	1091.2	1072.6	1044.7	996.4	948.6	931.3	924.1	893.6	897.4	880.5
35°	1142.4	1153.9	1137.4	1125.1	1111.1	1072.6	1024.8	1048.1	999.0	989.7	945.7
37.5°	1194.9	1191.5	1211.0	1198.3	1195.3	1168.2	1115.8	1120.5	1087.4	1085.3	1034.5
40°	1241.8	1242.7	1269.3	1275.3	1263.4	1215.2	1139.1	1175.9	1202.5	1205.1	1139.9
42.5°	1280.8	1292.2	1315.1	1362.8	1345.1	1264.7	1163.2	1203.4	1302.4	1318.0	1239.7
45°	1314.7	1337.9	1366.3	1409.0	1398.8	1334.9	1223.2	1260.1	1409.0	1450.1	1333.7
47.5°	1316.8	1347.2	1378.1	1441.6	1454.3	1372.6	1285.5	1349.7	1493.6	1538.0	1402.2
50°	1308.3	1324.4	1386.1	1455.1	1483.9	1434.0	1372.6	1425.1	1575.7	1603.6	1436.9
52.5°	1208.0	1220.3	1344.3	1467.8	1537.2	1503.4	1488.1	1530.0	1659.5	1680.2	1469.5
55°	1007.0	1004.9	1175.5	1403.9	1561.7	1606.1	1596.9	1611.7	1756.3	1775.0	1477.6
57.5°	688.9	727.4	874.6	1169.1	1411.5	1582.1	1591.8	1567.2	1643.4	1650.6	1288.0
60°	371.5	387.6	506.0	780.2	1074.7	1289.3	1314.7	1270.2	1264.3	1244.0	919.5
62.5°	147.7	155.7	222.9	386.3	585.6	783.6	838.2	820.0	781.1	727.8	476.0
65°	70.2	75.4	110.8	180.6	259.8	326.6	381.2	398.1	293.7	264.4	157.0
67.5°	47.9	51.6	80.8	103.3	92.7	96.9	126.1	117.2	69.0	58.8	43.6
70°	36.4	38.9	64.8	70.2	41.5	29.2	32.5	30.4	28.3	28.8	28.3
72.5°	25.8	27.9	47.3	41.5	18.2	13.5	17.3	20.8	20.8	20.8	20.3
75°	15.6	17.7	27.5	16.1	7.2	7.2	11.0	14.0	14.8	15.2	14.4
77.5°	8.1	10.2	9.3	4.6	4.6	5.5	8.1	9.8	10.6	10.6	10.2
80°	1.7	1.7	1.7	2.5	4.6	5.9	8.1	8.9	10.2	10.2	9.3
82.5°	0.0	0.4	1.3	2.5	4.2	5.5	7.7	8.9	10.2	10.6	9.8
85°	0.0	0.4	0.8	1.7	2.9	3.4	2.9	2.5	2.5	2.5	2.5
87.5°	0.0	0.0	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8
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°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5
2.5°	614.4	615.6	613.5	613.1	611.4	616.5	604.2	601.2	608.9	601.7	603.3
5°	622.4	625.4	621.6	615.2	605.9	591.6	579.3	563.1	555.6	550.1	549.2
7.5°	628.3	630.4	626.6	606.4	578.4	542.0	514.9	495.0	479.4	474.7	467.1
10°	652.4	652.9	633.9	589.0	534.4	486.6	445.1	414.7	399.0	389.3	385.0
12.5°	668.5	667.7	629.2	554.7	481.9	418.5	371.0	334.3	319.9	315.2	312.3
15°	688.9	684.2	618.2	519.6	414.3	345.7	302.9	277.5	276.3	273.3	276.3
17.5°	704.9	691.8	602.1	455.7	349.5	284.8	256.8	258.5	261.9	264.9	265.3
20°	731.2	704.1	565.3	399.8	289.4	244.1	243.7	251.4	259.8	263.1	266.6
22.5°	751.0	709.1	526.0	340.2	240.4	227.7	234.8	246.2	252.6	256.0	261.0
25°	758.2	695.2	473.5	280.6	216.6	220.0	231.0	238.7	246.7	250.4	248.3
27.5°	765.4	688.0	410.8	231.0	203.9	215.0	224.3	231.9	234.4	239.5	242.9
30°	782.8	663.0	354.6	199.7	197.6	211.6	218.3	220.8	227.7	230.6	230.6
32.5°	796.8	653.3	294.9	184.9	196.7	213.3	214.1	214.1	215.0	212.9	212.0
35°	825.5	619.9	241.6	176.0	196.3	213.7	215.8	208.6	189.1	181.5	179.4
37.5°	861.0	598.3	202.3	173.9	199.3	218.7	222.1	195.0	169.6	157.4	155.2
40°	904.2	583.1	176.4	173.1	206.0	230.6	220.4	184.5	151.5	133.7	132.9
42.5°	954.5	569.1	159.1	172.7	214.5	242.9	218.7	175.6	132.9	121.0	122.7
45°	994.7	561.5	147.3	169.6	217.5	250.0	220.0	160.0	125.2	117.7	118.5
47.5°	1026.1	545.4	137.5	164.6	217.1	252.6	208.6	153.6	121.4	123.5	125.6
50°	1026.9	523.9	125.2	153.6	210.8	247.9	195.4	147.7	120.6	129.5	133.7
52.5°	1015.5	493.3	112.1	137.9	195.9	231.9	183.7	145.2	116.8	116.0	121.0
55°	974.9	436.2	90.2	111.7	165.4	191.2	173.1	140.4	105.4	95.6	96.5
57.5°	787.8	312.7	66.4	80.0	117.2	140.0	156.1	138.3	94.8	81.2	81.7
60°	487.9	177.3	48.7	54.6	72.3	85.0	126.5	128.6	84.6	68.5	67.7
62.5°	250.4	87.5	37.7	38.5	44.4	50.0	86.7	107.9	76.6	65.2	65.2
65°	83.8	43.1	33.0	29.6	29.6	30.9	52.5	74.9	64.8	54.6	54.6
67.5°	36.0	32.1	28.8	25.8	23.7	22.5	29.6	43.6	48.3	41.5	39.8
70°	27.9	27.1	25.0	21.6	18.6	16.9	17.3	22.5	27.5	26.7	25.8
72.5°	20.8	20.8	19.8	16.9	14.4	12.3	11.4	11.9	13.1	13.5	14.0
75°	14.4	14.8	14.8	13.1	10.6	8.9	7.7	6.3	5.0	4.2	3.8
77.5°	9.8	10.2	11.0	9.8	8.1	5.9	4.6	3.4	2.1	0.8	0.8
80°	8.5	9.8	10.6	9.8	8.5	6.3	4.6	2.5	1.3	0.0	0.0
82.5°	8.9	9.8	11.0	9.3	8.1	5.9	4.6	2.9	1.3	0.4	0.0
85°	2.1	2.1	2.5	2.9	3.8	4.2	3.4	2.1	1.3	0.4	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	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)