

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: P450357

Luminaire Tested: **GALN-SA1A-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450357
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-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3373 lumens
Efficiency: N/A
Efficacy: 102.2 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

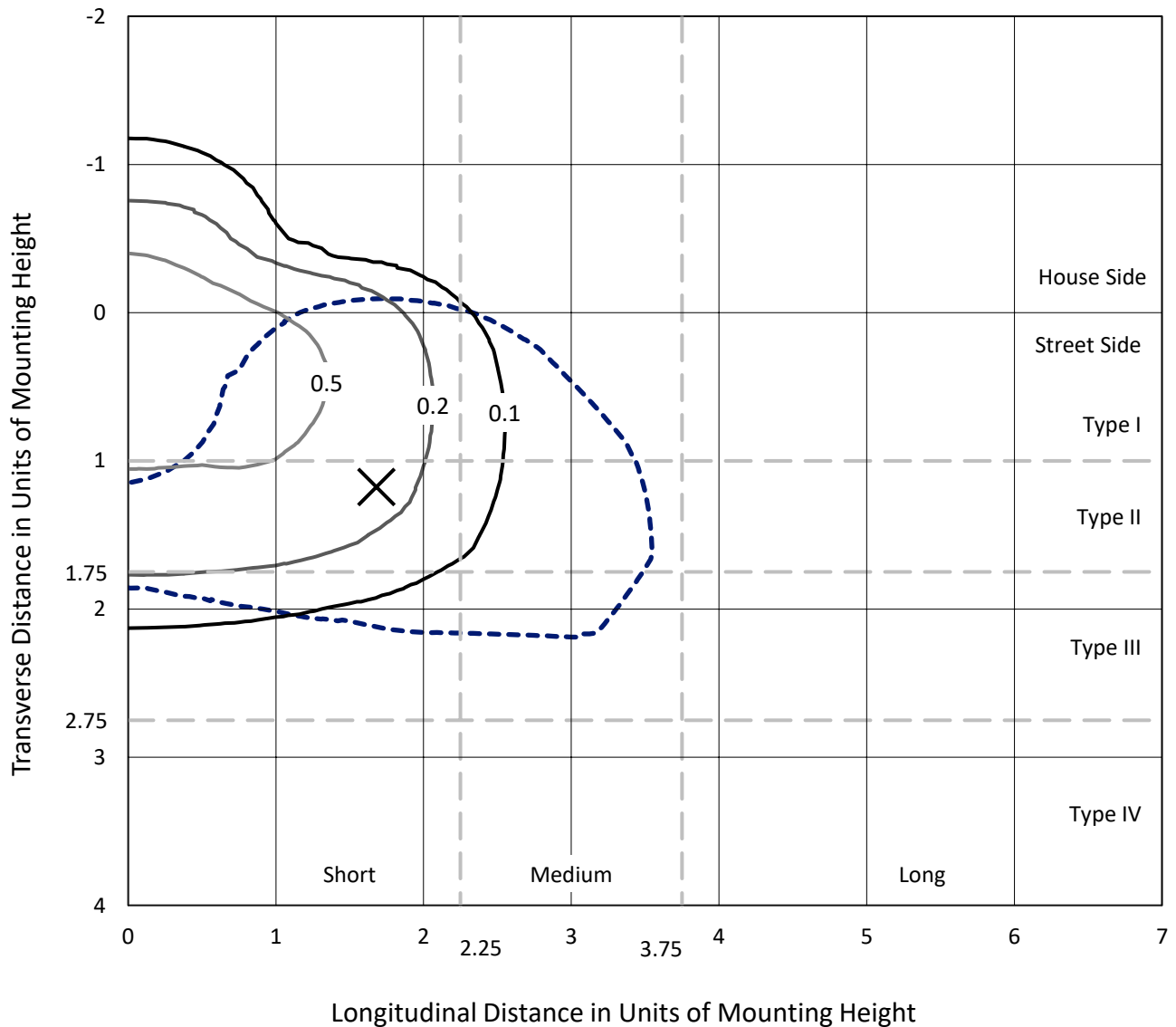
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

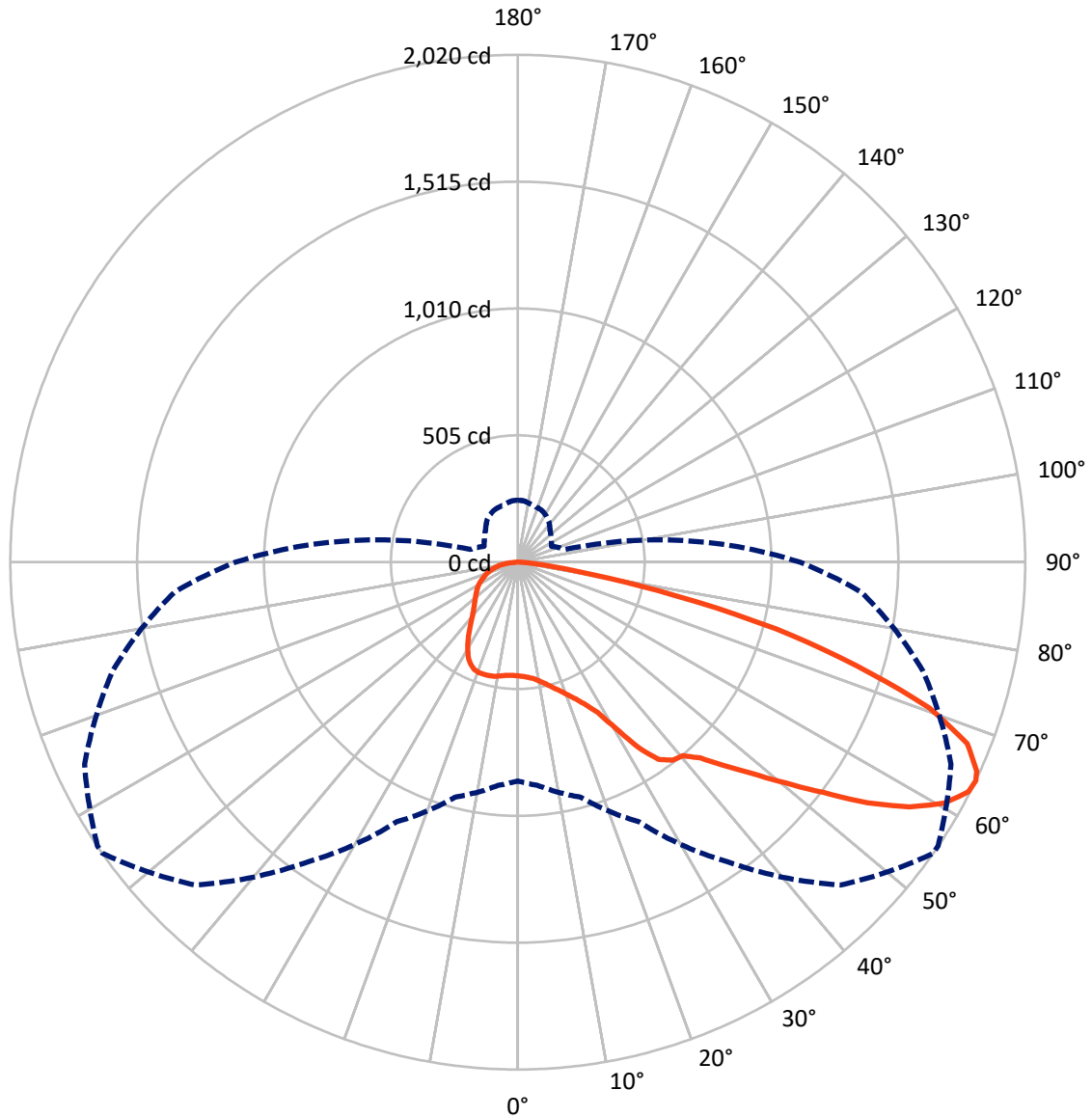
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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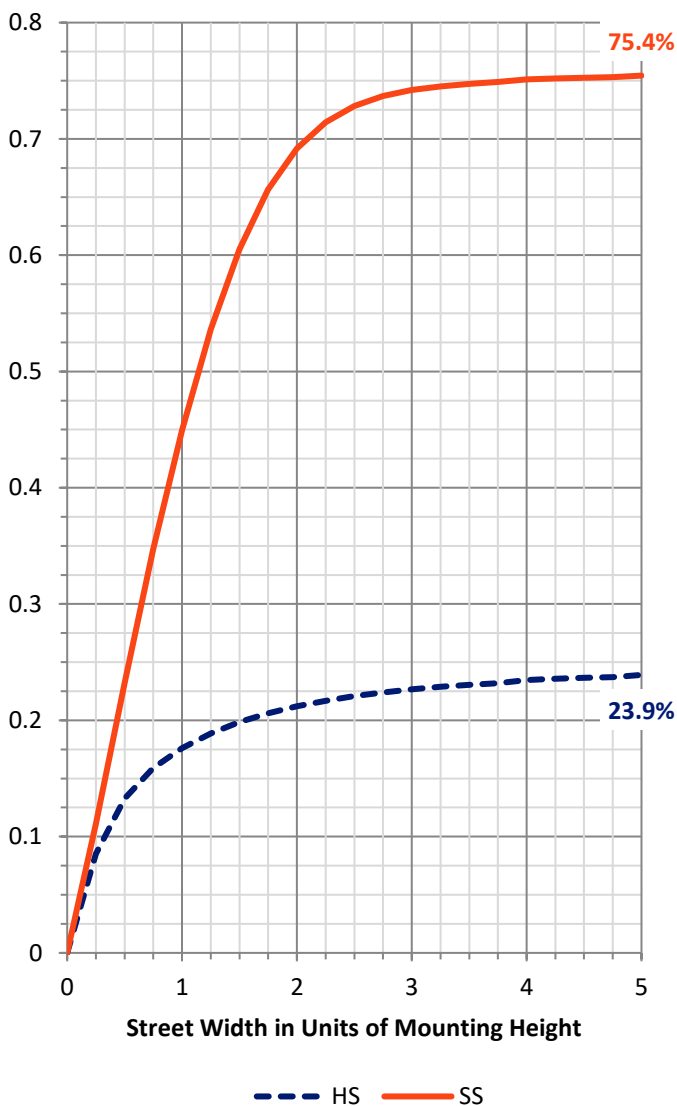
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	819.4	0.0	819.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	2553.6	0.0	2553.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	3373.0	0.0	3373.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.3
10°-20°	138.9	4.1
20°-30°	247.3	7.3
30°-40°	380.5	11.3
40°-50°	539.3	16.0
50°-60°	780.7	23.1
60°-70°	807.9	24.0
70°-80°	378.4	11.2
80°-90°	56.0	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°	3373.0	100.0
0°-180°	3373.0	100.0



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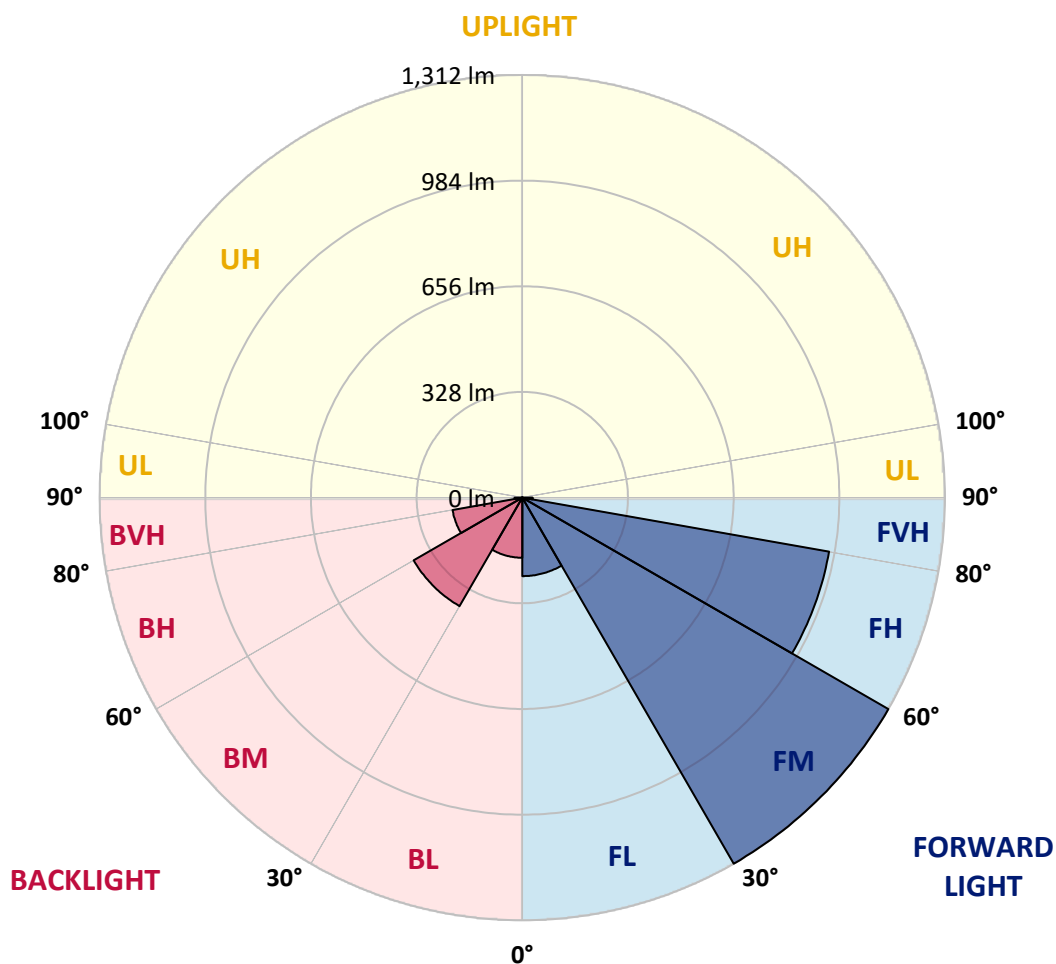
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.6	7.2			
FM (30°-60°)	1311.5	38.9			
FH (60°-80°)	966.5	28.7			G1/1800
FVH (80°-90°)	32.1	1.0			G1/100
BL (0°-30°)	186.6	5.5	B1/500		
BM (30°-60°)	389.0	11.5	B1/1000		
BH (60°-80°)	219.8	6.5	B1/500		G1/500
BVH (80°-90°)	23.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	457.6	457.4	458.0	457.4	457.8	456.5	455.9	456.3	455.8	454.8	453.1
5°	463.3	463.1	463.3	462.5	462.9	462.1	460.8	461.2	460.3	458.2	455.8
7.5°	472.9	472.1	472.1	471.9	471.2	470.0	469.1	468.7	467.8	465.2	461.4
10°	485.3	485.3	485.5	484.0	484.9	482.8	481.9	481.7	478.5	475.1	469.9
12.5°	501.6	502.6	502.0	501.3	500.9	500.1	496.9	497.7	494.1	488.3	481.9
15°	521.9	523.4	522.5	522.1	521.2	518.4	517.0	516.5	511.8	503.3	494.9
17.5°	548.8	546.9	546.2	545.2	541.3	539.2	537.0	536.6	532.5	522.5	509.3
20°	572.3	575.0	573.4	572.5	568.6	564.6	562.9	562.4	558.8	547.9	526.8
22.5°	600.3	600.9	601.5	599.2	597.3	594.3	591.3	590.4	589.1	577.8	552.0
25°	630.2	632.5	630.6	628.3	626.1	625.9	628.7	628.3	627.8	616.9	585.5
27.5°	678.9	681.0	681.6	679.1	670.5	671.2	677.6	679.7	688.3	670.3	628.5
30°	706.4	708.4	713.1	722.4	736.1	748.1	763.5	768.2	776.5	742.5	679.7
32.5°	723.3	724.1	732.5	749.6	790.8	835.7	877.7	879.4	884.6	836.9	726.5
35°	750.0	750.6	757.3	776.1	824.5	899.3	964.1	966.2	961.9	866.2	748.3
37.5°	782.9	784.4	788.7	804.3	862.1	952.5	1000.1	998.6	960.2	889.5	786.8
40°	830.8	830.8	825.8	846.8	901.7	982.9	1012.7	1010.0	999.9	957.0	845.5
42.5°	873.1	872.4	884.4	898.7	951.4	1030.0	1065.5	1069.8	1086.5	1041.8	912.3
45°	928.2	931.6	938.4	964.3	1035.8	1110.2	1156.1	1160.2	1183.9	1141.6	990.3
47.5°	983.9	985.0	1006.3	1040.9	1140.3	1219.1	1256.7	1263.5	1285.1	1258.4	1074.3
50°	1023.4	1034.1	1068.1	1122.6	1248.1	1351.8	1381.2	1389.3	1427.4	1385.5	1172.3
52.5°	1065.1	1075.6	1117.2	1200.3	1371.8	1487.6	1523.7	1529.1	1568.8	1514.1	1272.5
55°	1100.8	1110.6	1157.8	1269.1	1470.3	1626.2	1691.6	1685.2	1704.2	1613.2	1349.8
57.5°	1106.7	1114.6	1174.0	1313.1	1544.4	1745.0	1838.8	1842.6	1820.6	1687.3	1413.5
60°	1061.5	1077.7	1146.0	1308.4	1577.6	1827.7	1948.6	1951.2	1888.8	1725.2	1438.9
62.5°	981.6	979.9	1062.5	1232.8	1531.0	1846.5	2013.3	2010.5	1915.5	1707.0	1414.3
64°	871.3	891.6	968.7	1139.9	1455.8	1817.6	2020.0	2018.5	1902.7	1669.0	1372.3
65°	804.0	802.8	879.0	1064.0	1381.0	1773.9	2008.0	2005.9	1876.0	1635.0	1339.8
67.5°	580.4	583.0	658.2	821.1	1122.6	1603.4	1929.6	1921.9	1770.7	1522.2	1216.1
70°	351.6	353.1	412.1	544.7	805.8	1296.2	1739.3	1739.7	1609.6	1353.7	1035.0
72.5°	185.2	189.1	212.8	309.3	489.4	909.4	1411.1	1444.5	1381.9	1155.4	817.7
75°	103.0	103.6	120.3	152.5	249.7	509.0	1060.6	1070.2	1094.1	929.9	604.7
77.5°	78.6	79.7	85.0	98.5	135.9	236.0	641.9	690.0	771.1	655.6	345.0
80°	63.7	64.9	69.4	77.5	90.4	111.9	298.2	324.1	412.7	291.0	134.6
82.5°	49.6	48.9	54.7	60.0	65.8	66.2	122.4	135.4	168.1	125.2	58.3
85°	36.9	36.9	41.6	40.4	42.5	38.7	54.0	59.6	67.3	53.2	27.1
87.5°	14.7	16.2	27.3	24.4	19.0	15.2	19.9	21.1	23.3	20.9	11.3
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°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	453.3	453.9	452.6	451.6	451.2	450.7	450.1	450.3	451.1	451.8	451.6
5°	455.6	455.8	453.5	452.4	451.6	450.9	450.9	451.4	452.9	454.1	454.1
7.5°	461.2	461.2	458.0	455.9	454.8	453.5	453.1	453.3	454.4	455.9	456.1
10°	470.0	469.3	465.2	462.0	459.9	456.7	453.9	452.4	452.9	453.9	453.9
12.5°	480.8	478.7	473.4	469.1	464.0	458.0	452.2	449.2	449.0	449.9	449.5
15°	492.2	490.0	482.6	474.7	465.9	457.1	450.1	445.8	442.4	441.5	443.5
17.5°	505.6	500.9	490.7	479.8	466.7	455.2	444.3	435.4	429.4	427.7	428.3
20°	521.7	515.5	501.8	484.7	466.1	448.4	431.5	419.7	409.9	406.9	407.2
22.5°	544.1	533.4	513.3	487.1	461.4	435.6	412.1	396.7	384.9	380.2	383.0
25°	569.5	557.8	524.2	486.6	449.2	415.1	389.2	369.1	358.4	351.4	352.9
27.5°	604.5	583.8	535.8	481.5	431.7	390.1	360.1	341.1	331.3	327.7	329.4
30°	649.2	617.4	548.4	467.8	404.0	358.5	330.7	318.3	312.5	308.0	309.5
32.5°	681.6	641.1	551.3	444.7	374.2	329.8	310.8	301.6	295.2	290.9	291.8
35°	704.7	661.3	549.9	416.3	342.9	306.1	295.0	287.5	277.1	267.7	266.0
37.5°	735.7	686.4	540.4	385.2	312.1	290.1	282.2	268.3	253.4	240.8	240.3
40°	783.3	716.0	519.9	348.8	285.8	278.3	268.7	250.6	234.6	224.5	223.7
42.5°	832.3	743.2	492.0	310.4	264.2	265.9	254.2	236.3	226.6	220.0	219.2
45°	892.3	772.7	462.0	277.1	248.2	254.2	241.6	231.3	225.4	221.1	220.0
47.5°	957.2	803.0	428.1	247.2	234.6	243.5	236.3	231.6	228.4	225.4	224.1
50°	1027.1	836.9	396.3	223.2	222.4	232.4	235.8	234.1	232.2	231.3	230.1
52.5°	1103.8	871.5	369.6	206.3	211.7	224.5	236.0	237.3	237.3	236.7	236.0
55°	1155.7	895.5	342.6	192.5	200.8	218.1	235.6	240.7	242.5	241.8	241.0
57.5°	1194.1	908.7	308.5	180.7	191.6	211.9	233.5	241.0	242.9	243.9	243.5
60°	1202.0	896.5	264.0	168.3	181.6	202.9	226.0	235.4	237.8	243.7	244.2
62.5°	1166.5	858.9	219.6	156.1	169.4	189.1	215.8	229.0	233.9	242.9	243.9
64°	1122.8	816.7	195.0	148.3	161.5	181.4	210.8	227.3	233.7	245.7	246.5
65°	1090.9	786.1	179.6	143.5	156.4	176.4	207.9	227.9	235.4	250.1	251.2
67.5°	973.2	680.6	148.5	132.0	144.4	167.7	208.5	232.6	235.0	251.8	251.6
70°	805.3	541.9	124.5	121.5	132.7	160.8	206.3	225.1	225.2	236.3	233.7
72.5°	603.0	400.5	107.9	110.6	119.8	144.2	194.8	214.9	211.7	213.2	210.6
75°	414.2	264.9	92.9	98.9	106.2	127.5	178.6	195.2	190.1	188.2	186.3
77.5°	221.1	146.5	77.3	87.4	92.3	110.2	155.9	171.8	166.6	159.2	156.8
80°	89.5	69.0	62.2	72.4	75.2	88.7	129.7	139.7	135.7	123.0	118.8
82.5°	44.9	41.4	48.9	57.0	57.2	63.4	96.5	105.9	97.0	81.4	77.8
85°	23.5	24.3	33.7	40.0	35.3	34.2	57.9	64.1	58.8	51.1	46.1
87.5°	8.5	9.8	17.7	17.5	12.4	6.6	12.8	6.2	3.4	2.1	2.6
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)