

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: P382755

Luminaire Tested: **GLEON-SA1B-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5469.1 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

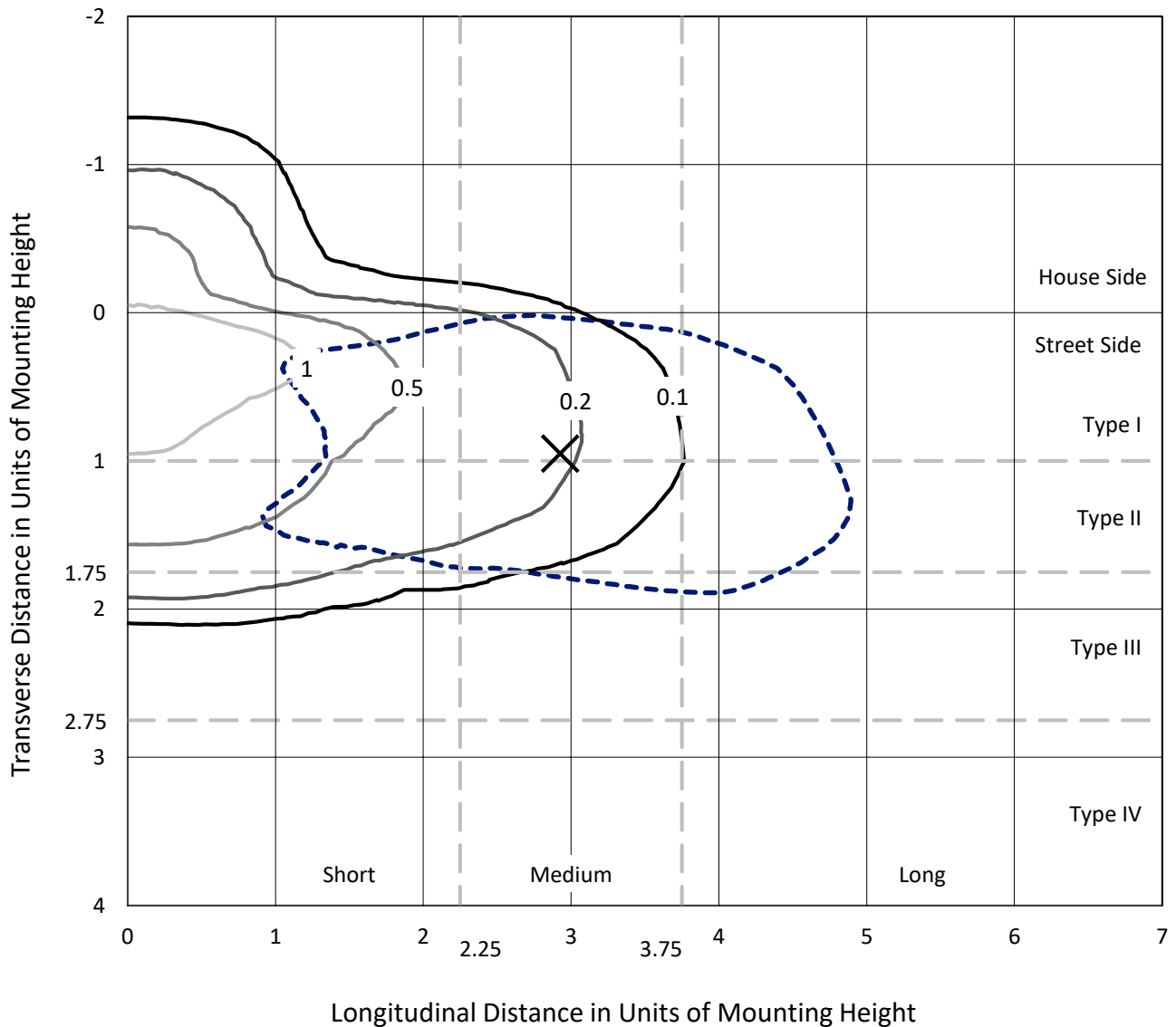
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

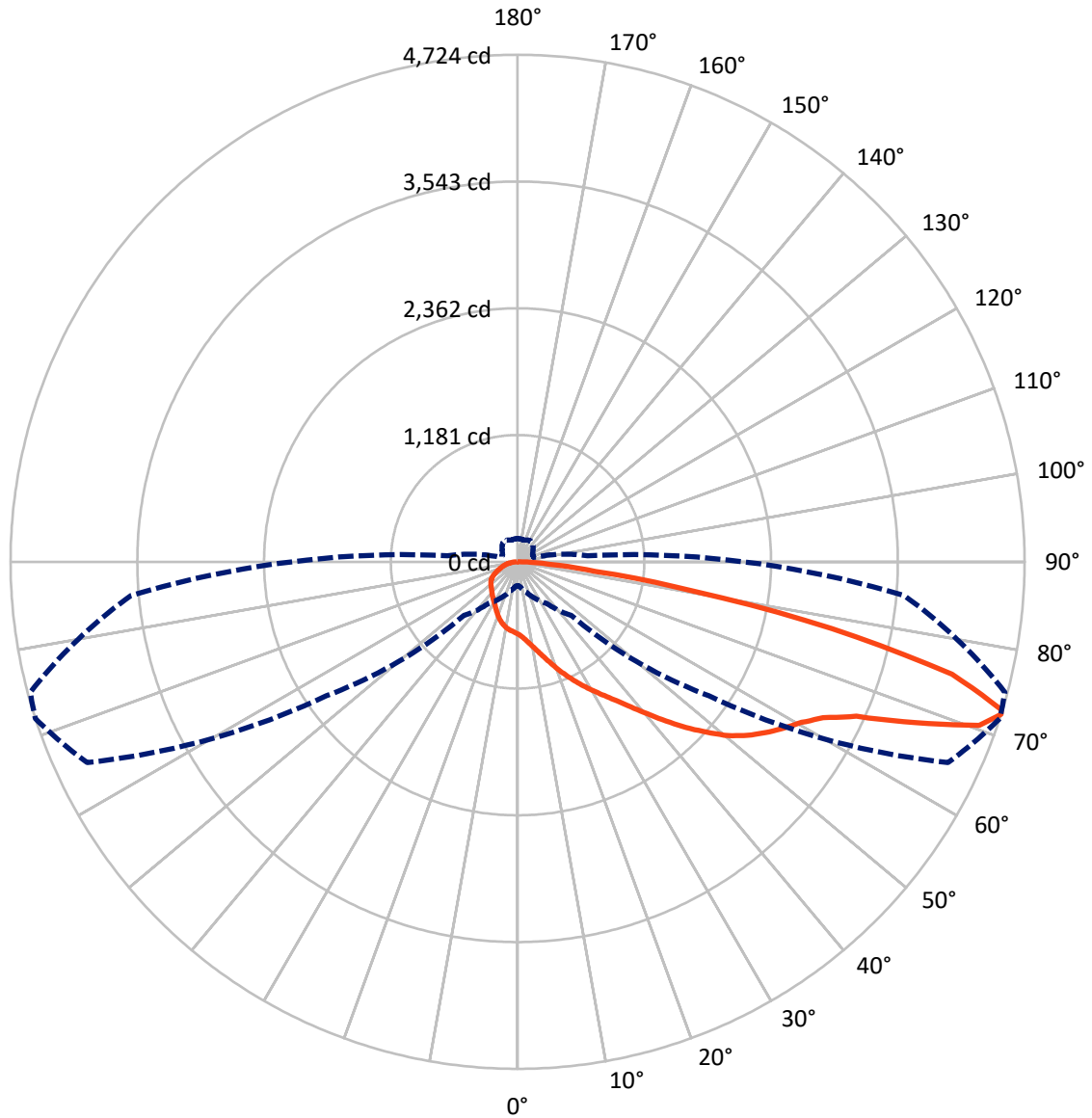
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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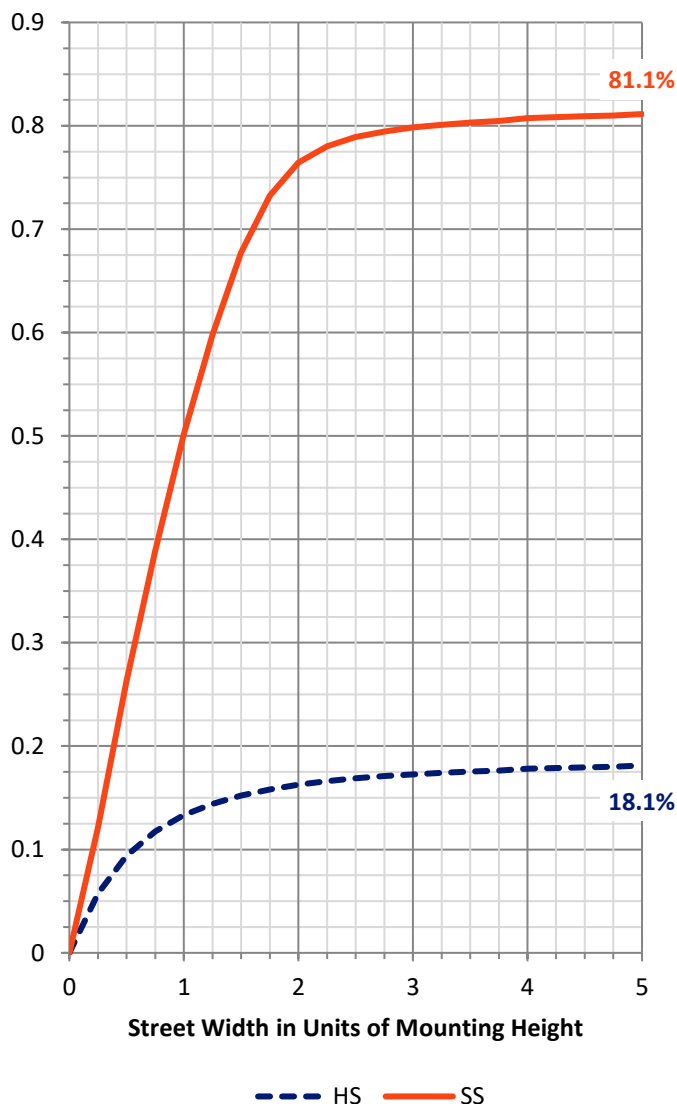
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1014.6	0.0	1014.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4454.6	0.0	4454.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	5469.1	0.0	5469.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.2
10°-20°	217.9	4.0
20°-30°	381.8	7.0
30°-40°	566.1	10.4
40°-50°	827.9	15.1
50°-60°	1139.2	20.8
60°-70°	1268.3	23.2
70°-80°	859.4	15.7
80°-90°	141.2	2.6
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°	5469.1	100.0
0°-180°	5469.1	100.0

Coefficient of Utilization



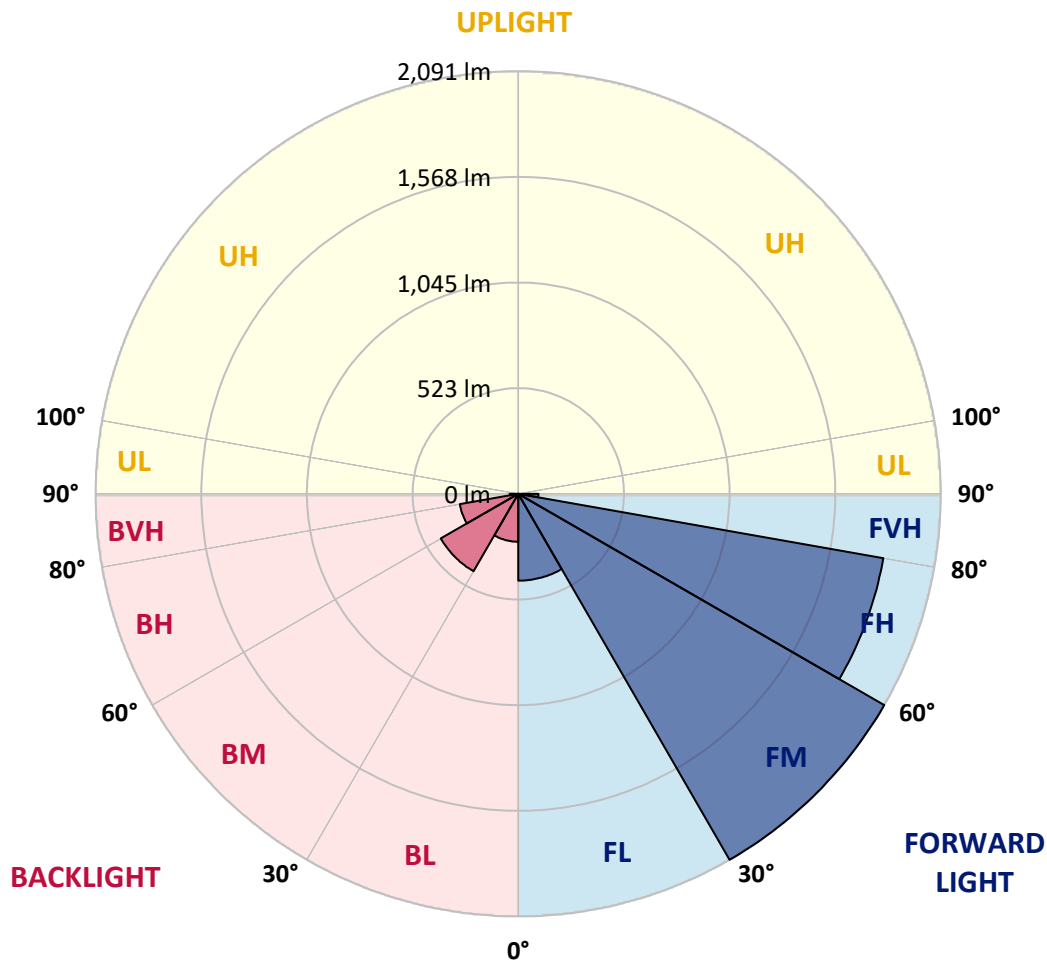
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.9	7.9			
FM (30°-60°)	2090.9	38.2			
FH (60°-80°)	1834.1	33.5			G2/5000
FVH (80°-90°)	99.6	1.8			G1/100
BL (0°-30°)	237.2	4.3	B1/500		
BM (30°-60°)	442.3	8.1	B1/1000		
BH (60°-80°)	293.5	5.4	B1/500		G1/500
BVH (80°-90°)	41.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9
2.5°	743.3	742.2	738.2	738.2	730.6	724.3	712.2	704.1	694.5	691.1	679.8
5°	815.2	815.6	810.7	807.3	796.2	782.6	762.1	743.5	724.8	717.3	694.1
7.5°	875.7	874.9	873.6	870.7	860.4	846.5	818.8	791.1	763.6	752.3	712.4
10°	914.4	916.2	917.3	918.6	914.2	904.3	878.1	844.4	808.4	793.0	734.2
12.5°	934.1	937.0	942.4	951.4	958.5	957.4	938.3	902.6	859.8	840.4	761.5
15°	945.5	949.4	957.7	973.9	994.1	1005.6	1000.5	968.2	920.5	896.5	794.9
17.5°	952.7	955.9	968.7	990.3	1020.3	1050.8	1064.2	1037.0	989.0	961.7	833.1
20°	957.5	960.1	976.0	1001.4	1040.3	1088.8	1126.1	1119.3	1064.6	1029.2	873.0
22.5°	968.5	970.6	985.9	1011.5	1054.3	1117.1	1185.8	1196.0	1144.2	1104.1	915.8
25°	999.0	999.0	1011.8	1029.7	1070.0	1141.5	1236.3	1281.3	1225.5	1178.9	955.3
27.5°	1057.2	1056.7	1061.3	1067.6	1098.0	1166.4	1281.3	1356.6	1309.9	1258.9	993.8
30°	1126.1	1129.9	1130.4	1127.5	1141.7	1197.5	1322.9	1436.1	1394.8	1339.8	1033.1
32.5°	1214.8	1217.3	1214.5	1204.5	1202.3	1241.6	1363.8	1519.4	1486.7	1424.4	1069.0
35°	1327.5	1322.7	1313.9	1293.5	1274.2	1300.5	1410.5	1602.5	1590.0	1526.6	1118.6
37.5°	1448.1	1448.3	1437.4	1391.3	1364.5	1375.8	1474.8	1696.9	1714.8	1648.3	1182.0
40°	1544.9	1550.0	1556.8	1496.2	1461.5	1477.2	1556.8	1806.3	1862.4	1792.6	1264.7
42.5°	1612.5	1618.4	1637.6	1599.6	1563.6	1592.6	1653.2	1923.1	2028.2	1959.0	1361.5
45°	1684.1	1687.3	1700.8	1684.4	1661.5	1726.8	1761.8	2043.9	2203.5	2136.4	1469.8
47.5°	1759.4	1762.8	1776.7	1765.8	1753.7	1852.3	1875.2	2157.9	2371.4	2331.3	1585.4
50°	1852.5	1854.7	1867.8	1848.1	1851.9	1946.7	1976.6	2262.4	2547.5	2506.4	1701.4
52.5°	1979.4	1979.9	1998.2	1980.3	1962.6	2016.1	2063.8	2360.9	2685.6	2666.2	1817.4
55°	2078.7	2084.8	2144.7	2141.0	2130.7	2078.9	2136.6	2454.6	2808.7	2817.9	1940.6
57.5°	2015.3	2038.9	2160.2	2245.7	2328.9	2235.4	2235.1	2560.3	2923.2	2966.9	2076.0
60°	1765.1	1797.0	1975.8	2165.4	2425.8	2507.7	2439.6	2689.3	3038.8	3114.5	2245.7
62.5°	1260.6	1313.3	1555.5	1858.3	2292.9	2688.2	2855.8	2894.0	3196.0	3285.5	2466.2
65°	637.3	677.1	880.2	1244.9	1831.9	2570.3	3308.1	3342.2	3469.3	3548.7	2805.7
67.5°	387.2	402.2	501.3	692.4	1123.1	2002.2	3455.8	4089.2	3998.1	4040.3	3289.9
70°	285.3	296.4	358.2	459.9	645.9	1174.9	3002.7	4622.3	4562.4	4557.8	3647.7
72°	222.2	230.3	285.0	371.5	472.3	704.9	2176.4	4425.6	4724.1	4700.3	3614.9
72.5°	210.7	217.9	267.6	349.7	446.3	638.9	1956.8	4292.8	4712.3	4701.6	3572.5
75°	165.9	171.0	198.1	270.4	349.3	362.5	1072.2	3326.7	4180.4	4354.1	3213.2
77.5°	137.3	138.1	152.3	196.7	272.3	256.3	526.7	2308.2	2993.4	3184.6	2276.1
80°	111.9	112.8	119.6	138.1	206.1	189.7	250.1	1327.3	1675.9	1678.1	1082.5
82.5°	89.1	89.2	96.8	101.0	148.0	135.5	143.3	623.1	732.4	704.4	389.0
85°	62.7	61.4	94.6	82.8	96.8	87.0	79.1	246.7	302.8	289.6	121.8
87.5°	20.9	21.6	42.0	53.7	56.5	49.4	35.2	94.6	114.3	113.4	38.6
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°	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9
2.5°	676.2	670.2	661.4	651.5	643.9	636.0	630.1	627.1	623.7	620.9	624.2
5°	683.4	672.1	653.3	634.8	621.2	609.2	600.6	596.0	591.9	589.0	589.4
7.5°	695.0	676.8	645.2	618.3	599.4	586.4	577.6	574.6	571.9	571.1	572.1
10°	707.5	680.6	634.4	598.6	577.2	566.5	562.5	564.5	566.5	568.2	570.0
12.5°	721.6	683.9	618.8	575.7	557.4	553.2	557.3	566.3	572.8	576.8	579.2
15°	740.1	686.9	600.8	552.7	540.5	545.1	558.6	574.2	585.7	593.0	594.1
17.5°	757.0	686.7	577.6	529.5	526.7	540.5	560.6	582.7	598.1	608.5	610.5
20°	774.5	681.7	550.6	506.9	512.8	535.4	561.5	588.1	606.7	618.8	621.6
22.5°	790.9	672.9	521.1	486.5	501.1	528.6	558.0	584.9	603.5	613.3	616.3
25°	802.1	657.4	491.1	469.1	490.7	520.3	546.3	568.0	581.8	586.8	587.5
27.5°	807.7	637.3	462.9	454.0	480.0	506.8	524.6	535.4	539.4	539.0	538.2
30°	808.4	610.7	438.6	441.7	467.5	486.8	495.3	493.2	488.1	479.5	480.2
32.5°	806.0	580.7	418.3	430.1	451.8	462.5	462.9	452.9	439.3	425.6	421.8
35°	806.7	551.4	400.4	417.0	432.5	437.3	432.9	418.3	399.8	382.1	378.3
37.5°	815.0	525.8	384.9	401.7	411.3	412.4	406.2	390.8	377.2	359.9	358.4
40°	834.8	507.5	370.2	384.5	390.0	390.6	381.7	370.8	371.9	362.7	362.5
42.5°	870.3	499.6	357.2	366.7	370.0	371.1	364.4	357.4	367.2	361.2	359.1
45°	916.4	501.5	346.3	349.1	355.4	360.6	356.5	348.0	351.8	325.6	316.9
47.5°	969.5	513.6	337.7	334.1	344.8	354.8	348.4	335.5	322.2	296.2	291.3
50°	1031.6	532.2	329.8	319.1	333.3	346.9	340.5	322.2	302.1	289.4	287.8
52.5°	1096.3	554.9	321.8	302.8	318.8	340.9	337.7	319.1	294.4	281.9	279.7
55°	1169.8	577.9	311.9	283.7	303.2	338.1	336.3	308.2	288.5	281.5	279.8
57.5°	1261.1	604.1	298.7	264.0	288.5	327.8	322.6	301.6	282.4	277.2	276.7
60°	1380.2	642.7	279.7	242.9	270.6	312.3	311.1	292.0	272.9	269.1	268.4
62.5°	1558.7	706.6	253.5	221.8	250.7	285.7	296.0	279.1	262.7	262.5	262.9
65°	1835.5	802.6	225.1	203.4	230.5	263.3	278.5	265.7	252.4	256.1	256.6
67.5°	2156.3	882.3	197.2	185.3	210.0	242.0	262.7	252.4	238.6	248.4	248.5
70°	2263.2	811.1	172.7	167.4	188.7	221.4	245.6	237.6	223.8	233.5	232.6
72°	2106.1	654.8	156.9	153.9	172.7	204.5	230.3	223.9	210.2	216.8	214.3
72.5°	2056.6	624.2	152.9	150.4	168.3	200.2	226.4	220.5	206.8	212.4	210.2
75°	1834.6	542.2	131.4	132.0	146.9	179.0	204.1	202.2	188.1	188.7	187.9
77.5°	1330.6	397.5	110.8	114.5	125.0	157.4	181.7	180.6	165.2	162.4	161.7
80°	617.5	202.8	90.2	91.9	102.8	131.6	155.0	153.5	141.0	137.5	135.4
82.5°	211.5	96.4	67.8	68.9	79.6	106.0	134.4	133.5	123.2	116.2	111.9
85°	75.5	48.0	47.4	46.3	56.8	83.5	117.1	112.1	96.8	82.4	82.1
87.5°	24.5	20.5	24.5	24.3	33.2	56.5	85.1	72.5	70.2	58.4	57.3
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)