

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: P318535

Luminaire Tested: **GLEON-SA1D-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5973 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

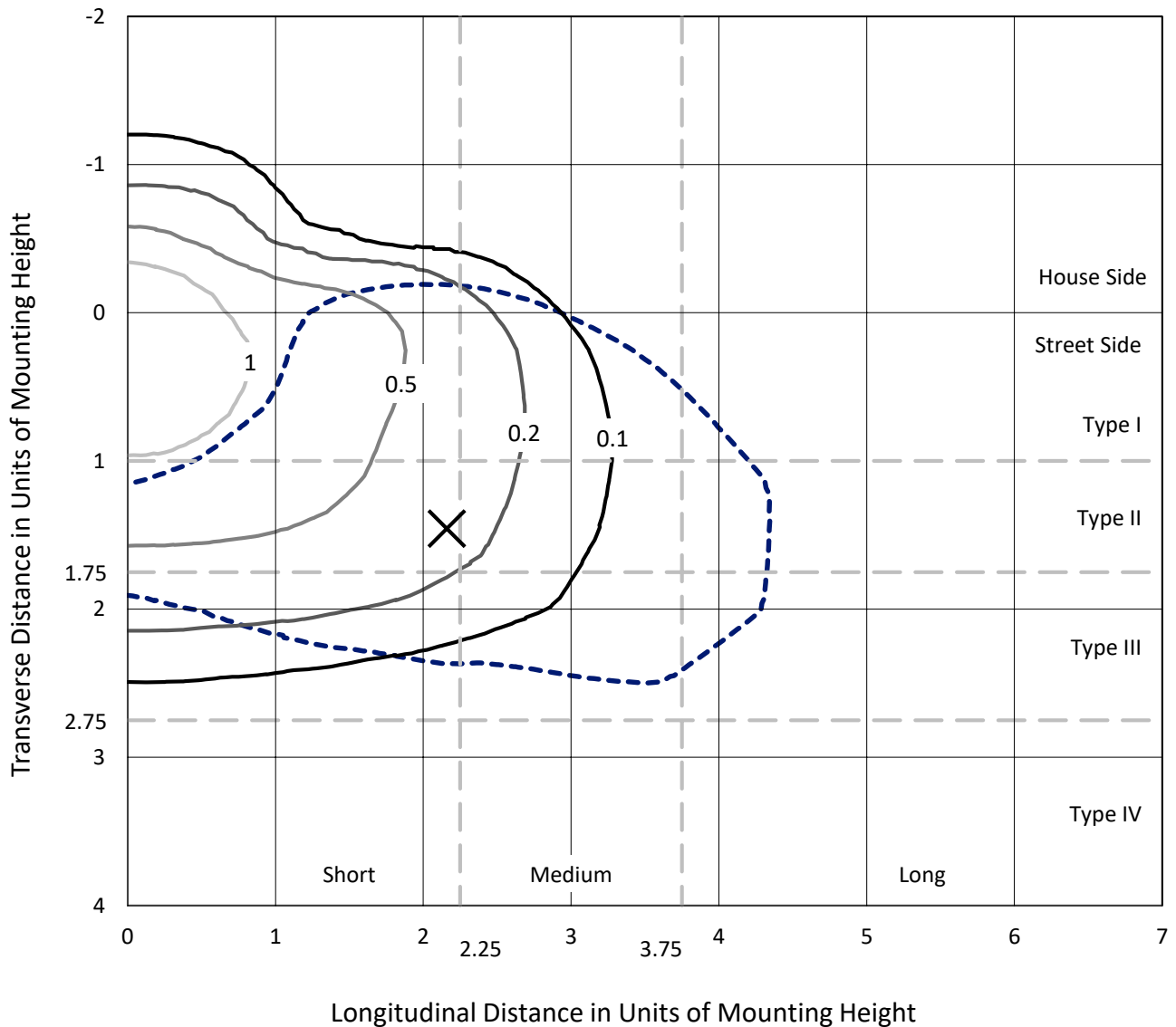
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

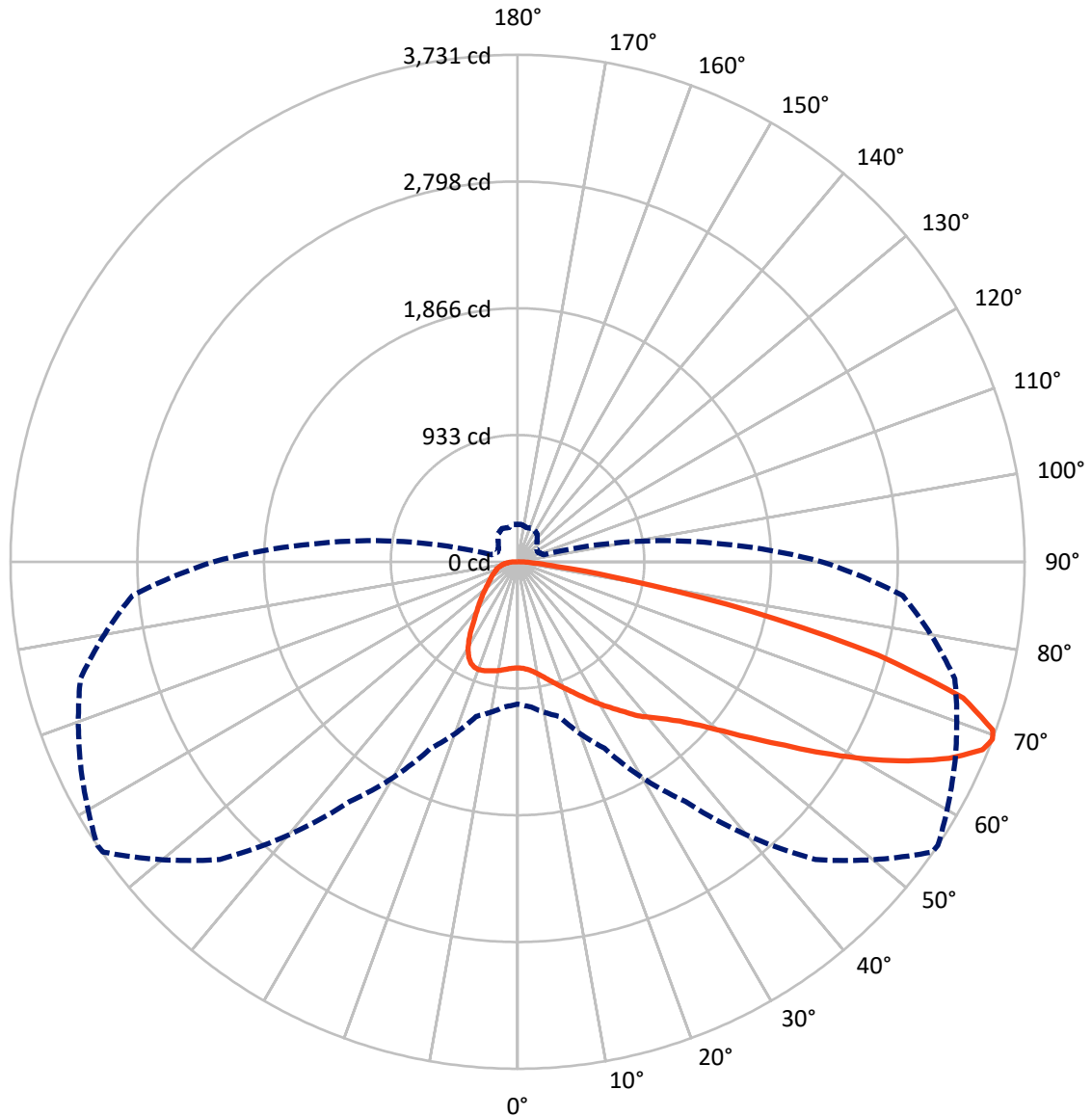
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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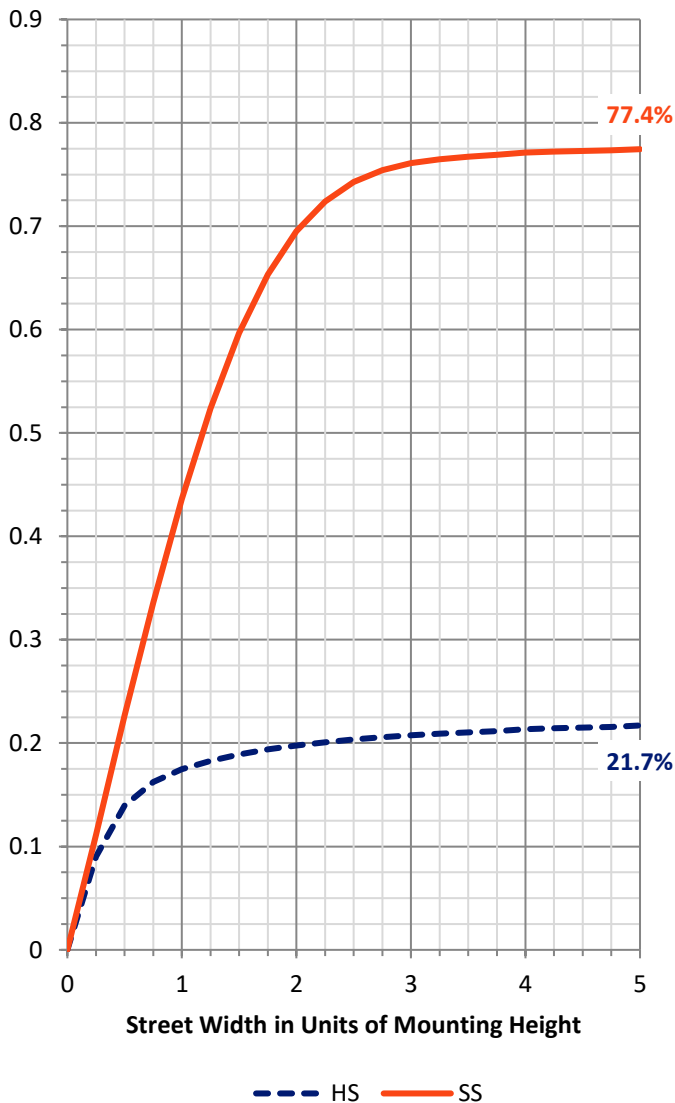
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.2	0.0	1330.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	4642.8	0.0	4642.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	5973.0	0.0	5973.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	1.3
10°-20°	246.6	4.1
20°-30°	430.5	7.2
30°-40°	618.4	10.4
40°-50°	855.8	14.3
50°-60°	1253.9	21.0
60°-70°	1528.8	25.6
70°-80°	845.2	14.2
80°-90°	117.1	2.0
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°	5973.0	100.0
0°-180°	5973.0	100.0



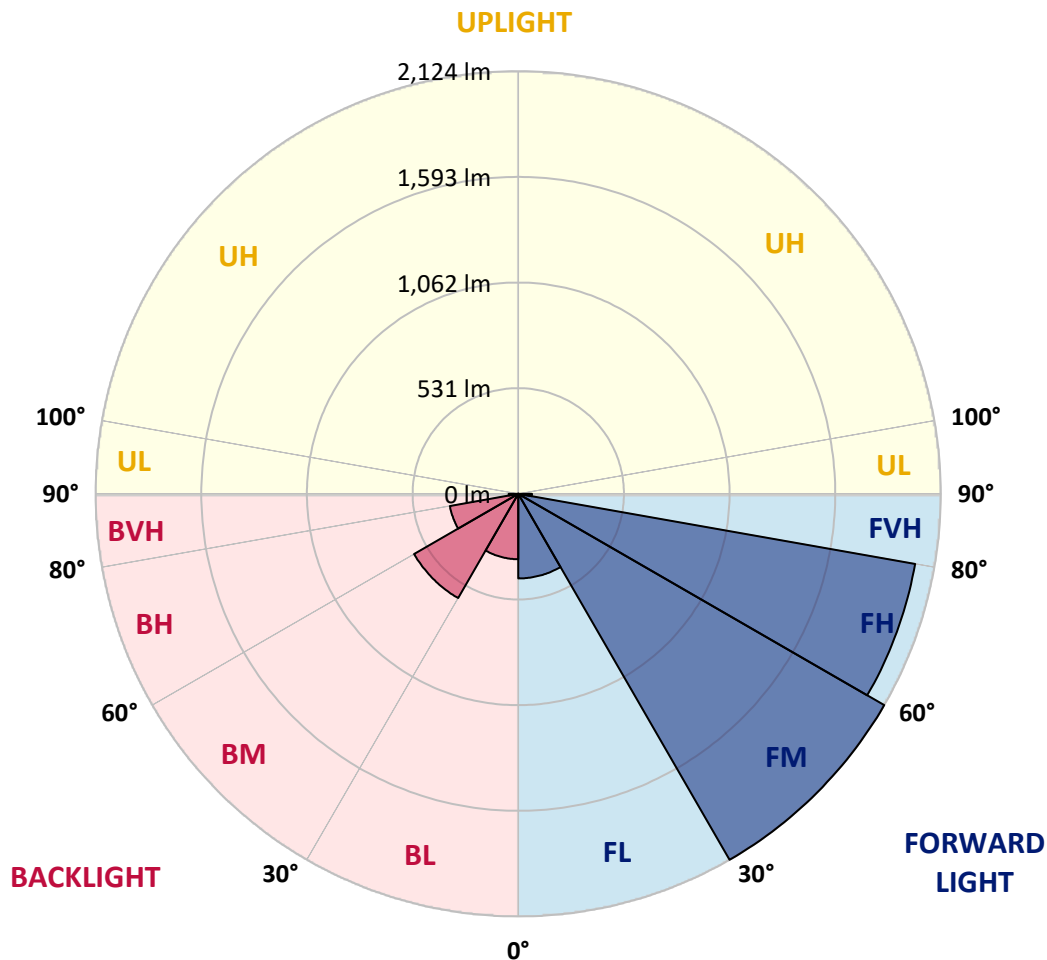
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.1	7.1			
FM (30°-60°)	2123.6	35.6			
FH (60°-80°)	2025.1	33.9			G2/5000
FVH (80°-90°)	69.0	1.2			G1/100
BL (0°-30°)	328.7	5.5	B1/500		
BM (30°-60°)	604.5	10.1	B1/1000		
BH (60°-80°)	348.8	5.8	B1/500		G1/500
BVH (80°-90°)	48.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	780.9	780.9	780.9	780.9	780.9	780.9	780.9	780.9	780.9	780.9	780.9
2.5°	785.8	786.6	786.0	787.7	785.8	787.1	786.0	786.0	785.4	783.6	781.5
5°	798.2	799.8	798.8	800.4	798.2	798.6	796.7	796.7	794.9	791.0	786.8
7.5°	817.5	819.4	818.5	820.2	817.1	817.1	814.6	814.4	810.7	804.3	799.6
10°	840.6	843.0	842.2	844.7	842.2	843.0	840.6	840.6	835.6	826.6	820.6
12.5°	874.1	877.2	874.9	874.7	873.7	875.3	873.3	872.9	868.3	856.0	847.8
15°	918.9	922.2	917.5	917.1	911.3	910.7	910.7	910.1	907.2	892.4	878.8
17.5°	970.6	971.6	967.5	960.9	953.5	948.8	948.2	949.8	949.8	932.5	910.9
20°	1021.2	1023.1	1019.8	1012.4	1002.9	995.9	991.0	994.3	994.1	973.5	942.8
22.5°	1076.4	1080.7	1075.7	1066.3	1055.2	1047.3	1038.7	1041.6	1041.8	1016.5	974.1
25°	1147.8	1143.9	1140.8	1127.4	1111.5	1103.5	1095.5	1098.4	1097.6	1062.8	1006.4
27.5°	1210.9	1211.8	1207.6	1193.4	1175.1	1157.4	1157.0	1158.9	1155.8	1110.9	1036.9
30°	1284.4	1284.8	1279.0	1266.3	1246.3	1223.5	1218.1	1221.2	1214.6	1156.6	1069.0
32.5°	1357.4	1359.5	1353.1	1337.7	1321.6	1293.9	1283.2	1285.2	1268.7	1203.3	1102.1
35°	1421.4	1424.3	1422.3	1412.0	1394.5	1370.6	1357.8	1356.6	1336.2	1260.5	1145.9
37.5°	1486.7	1489.3	1487.1	1478.4	1471.4	1446.1	1439.3	1439.3	1403.9	1319.0	1201.7
40°	1553.7	1557.9	1555.2	1543.2	1537.3	1525.8	1509.5	1505.6	1467.3	1389.1	1292.6
42.5°	1616.1	1621.4	1632.1	1625.1	1613.0	1614.6	1581.9	1579.9	1551.9	1492.8	1406.8
45°	1704.6	1712.4	1730.5	1725.1	1722.7	1713.6	1674.7	1672.9	1662.2	1632.3	1548.6
47.5°	1801.1	1811.8	1844.5	1845.5	1872.1	1855.0	1802.1	1795.7	1798.2	1799.4	1721.6
50°	1890.0	1901.7	1955.4	1980.7	2043.3	2047.0	1962.4	1956.6	1966.3	1994.7	1923.3
52.5°	1960.9	1975.8	2042.8	2121.0	2228.2	2258.7	2159.7	2155.4	2162.6	2211.6	2151.3
55°	2013.0	2029.1	2102.1	2244.5	2415.7	2469.4	2386.9	2382.8	2387.3	2449.6	2399.2
57.5°	2025.1	2029.1	2135.0	2327.6	2573.9	2702.9	2664.9	2656.6	2634.4	2688.7	2672.9
60°	1968.1	1983.8	2107.9	2356.8	2696.4	2933.2	2955.4	2945.1	2882.8	2927.2	2914.5
62.5°	1852.5	1880.5	2006.4	2312.4	2744.3	3121.3	3240.4	3228.0	3120.6	3149.4	3088.1
65°	1663.6	1675.5	1807.9	2159.1	2683.4	3241.6	3494.5	3488.3	3353.2	3308.1	3120.2
67.5°	1325.7	1348.2	1460.5	1838.7	2434.2	3227.4	3691.0	3690.4	3505.0	3366.9	3006.4
69°	1047.3	1070.6	1177.6	1514.6	2154.0	3097.6	3723.9	3731.1	3547.8	3331.1	2843.9
70°	835.0	862.0	935.4	1275.7	1905.2	2926.4	3696.6	3709.5	3539.6	3272.1	2693.9
72.5°	355.4	377.2	429.4	657.6	1161.1	2185.2	3379.9	3428.9	3348.8	2994.7	2226.4
75°	155.1	161.9	185.6	268.1	515.4	1189.3	2647.8	2738.3	2863.4	2531.3	1658.5
77.5°	113.6	116.5	129.4	157.4	231.3	449.2	1702.7	1755.4	2065.1	1842.0	1017.3
80°	87.9	89.9	100.0	115.6	151.0	181.7	776.6	821.8	1161.1	946.1	423.7
82.5°	70.0	71.4	78.4	85.2	104.3	110.1	257.8	286.0	428.6	261.3	112.1
85°	65.0	66.7	69.1	62.1	66.9	64.6	111.5	116.7	129.4	102.7	46.9
87.5°	29.4	34.8	68.5	48.4	35.6	28.4	45.7	47.7	53.7	53.9	20.8
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°	780.9	780.9	780.9	780.9	780.9	780.9	780.9	780.9	780.9	780.9	780.9
2.5°	782.7	782.1	783.1	780.7	783.8	783.6	782.5	782.9	785.0	784.8	785.0
5°	787.5	787.1	788.3	786.4	790.1	791.4	791.6	793.4	795.7	796.3	796.3
7.5°	799.4	799.4	800.0	797.5	800.0	799.8	798.8	800.6	802.9	803.1	802.9
10°	820.0	820.2	819.2	812.8	810.7	805.2	800.0	800.2	803.1	805.4	806.0
12.5°	845.9	845.1	840.6	828.8	820.2	808.9	803.5	803.3	806.2	808.0	808.7
15°	875.5	873.3	861.5	842.4	827.2	816.1	807.4	805.4	803.7	801.7	801.9
17.5°	903.5	898.4	878.8	852.3	836.2	821.4	804.7	791.4	782.1	776.8	775.1
20°	931.9	921.8	893.6	861.5	841.2	814.2	782.1	755.0	738.1	730.3	728.8
22.5°	957.8	941.6	907.4	871.2	837.3	789.9	739.5	700.0	676.6	666.1	666.9
25°	983.1	960.5	921.8	878.0	817.5	747.1	680.3	631.7	604.5	592.8	592.4
27.5°	1005.4	979.6	937.5	872.4	780.7	686.2	610.1	562.8	540.1	530.1	528.4
30°	1030.9	1003.7	958.2	851.3	726.8	615.9	541.6	508.2	492.2	482.1	480.3
32.5°	1062.0	1036.4	975.3	812.8	657.8	542.4	488.1	464.8	450.2	438.9	436.8
35°	1107.2	1079.7	979.6	757.6	582.1	484.4	448.8	424.9	405.2	390.5	389.1
37.5°	1164.0	1133.8	969.8	686.2	508.7	446.7	416.1	386.6	360.9	340.3	337.0
40°	1245.9	1200.2	942.4	603.9	454.5	417.7	384.2	350.6	318.7	294.7	289.9
42.5°	1344.3	1278.2	900.4	522.0	414.8	388.3	352.5	310.9	280.5	263.4	260.9
45°	1469.4	1359.3	842.2	450.4	375.7	358.9	318.3	280.0	261.1	248.6	246.5
47.5°	1612.2	1450.2	781.1	392.2	342.6	331.3	291.0	266.3	251.2	241.4	239.5
50°	1787.7	1552.9	716.3	344.5	309.3	298.2	278.0	258.6	246.7	239.1	237.2
52.5°	1985.6	1668.8	669.6	306.8	281.7	273.7	271.2	254.5	244.9	239.1	237.2
55°	2198.8	1786.7	619.1	275.1	257.8	260.1	266.7	254.9	248.4	241.4	238.7
57.5°	2412.2	1908.5	563.0	248.4	238.9	250.0	263.6	255.8	250.2	243.4	241.0
60°	2580.9	1985.6	475.9	225.9	223.9	238.9	256.2	249.6	242.4	242.6	242.2
62.5°	2659.7	1981.5	379.8	206.0	208.9	223.9	244.2	239.9	234.0	242.0	242.6
65°	2615.5	1882.8	295.7	187.9	192.8	208.2	231.9	235.2	237.2	252.7	254.7
67.5°	2429.9	1690.6	229.0	172.0	178.2	197.5	233.1	256.2	258.9	275.1	274.9
69°	2237.9	1510.3	199.0	163.8	171.0	200.2	249.2	269.6	259.5	276.8	274.3
70°	2077.0	1367.7	182.9	158.2	167.7	204.9	259.9	269.3	256.4	271.2	267.1
72.5°	1599.6	984.0	155.1	147.9	156.6	196.1	263.0	263.4	249.2	252.1	245.1
75°	1097.1	621.8	135.4	134.0	139.7	176.8	253.1	251.7	230.5	226.3	220.6
77.5°	605.0	315.8	115.0	120.6	124.5	156.6	230.0	228.0	210.5	201.9	199.8
80°	233.3	138.3	97.1	107.2	109.7	135.6	201.7	199.8	185.2	174.1	171.0
82.5°	88.1	72.4	80.2	92.8	92.0	111.9	170.8	169.8	155.6	139.3	134.4
85°	40.7	43.4	63.6	76.5	70.6	82.9	136.6	138.5	121.2	101.9	101.9
87.5°	17.3	24.3	45.1	57.8	47.5	56.0	100.2	95.7	87.9	60.9	57.2
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)