

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: P382749

Luminaire Tested: **GLEON-SA1B-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5295.9 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

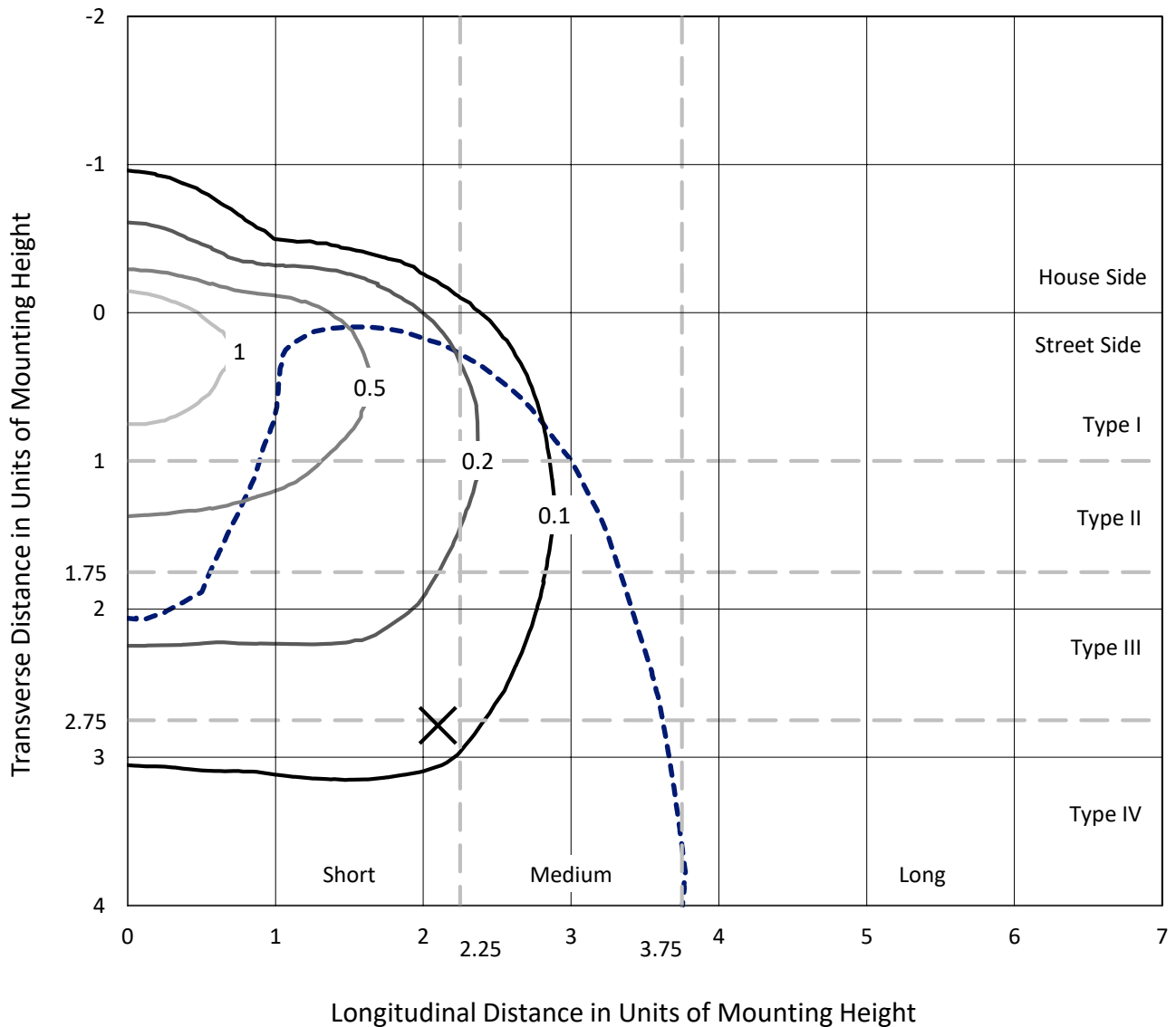
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

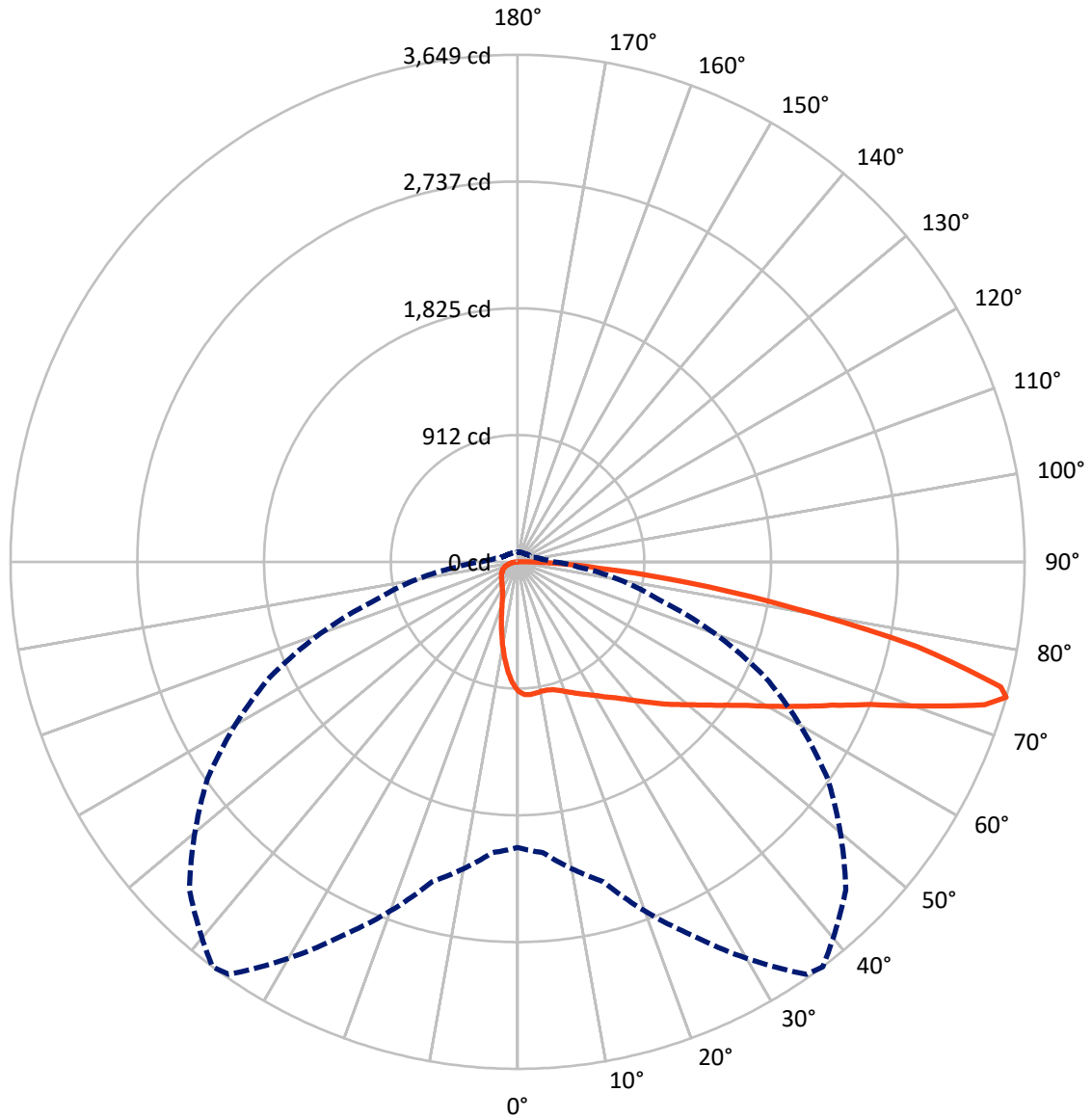
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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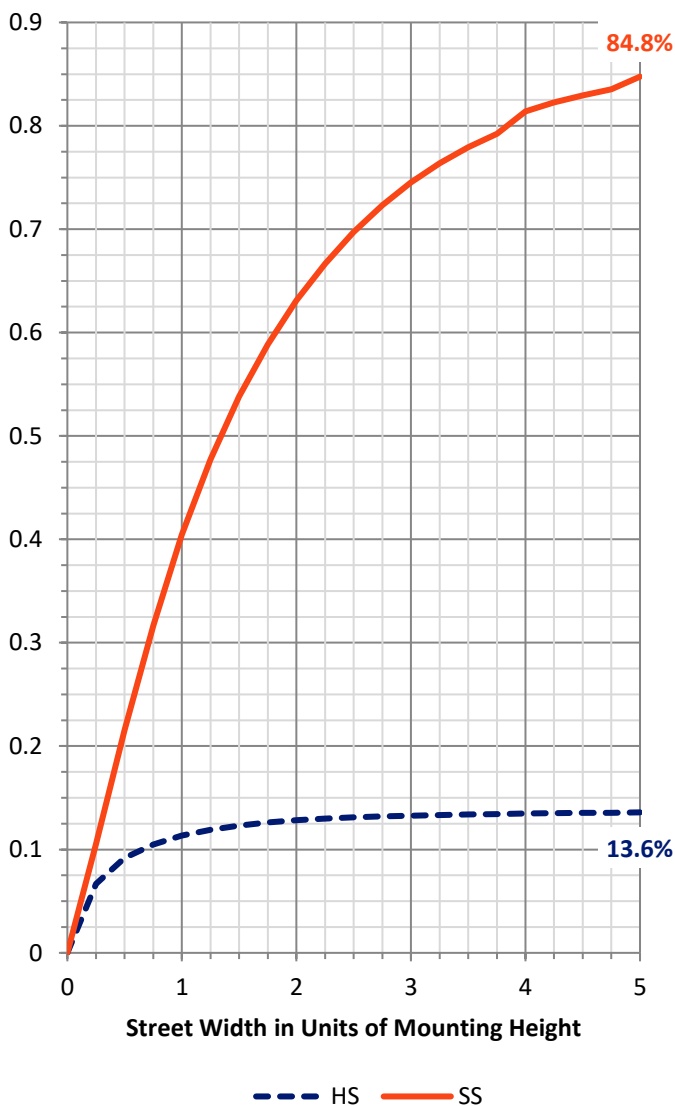
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	728.7	0.0	728.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	4567.2	0.0	4567.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	5295.9	0.0	5295.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	1.6
10°-20°	210.6	4.0
20°-30°	324.5	6.1
30°-40°	471.9	8.9
40°-50°	694.6	13.1
50°-60°	975.4	18.4
60°-70°	1234.6	23.3
70°-80°	1087.1	20.5
80°-90°	214.9	4.1
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°	5295.9	100.0
0°-180°	5295.9	100.0

Coefficient of Utilization

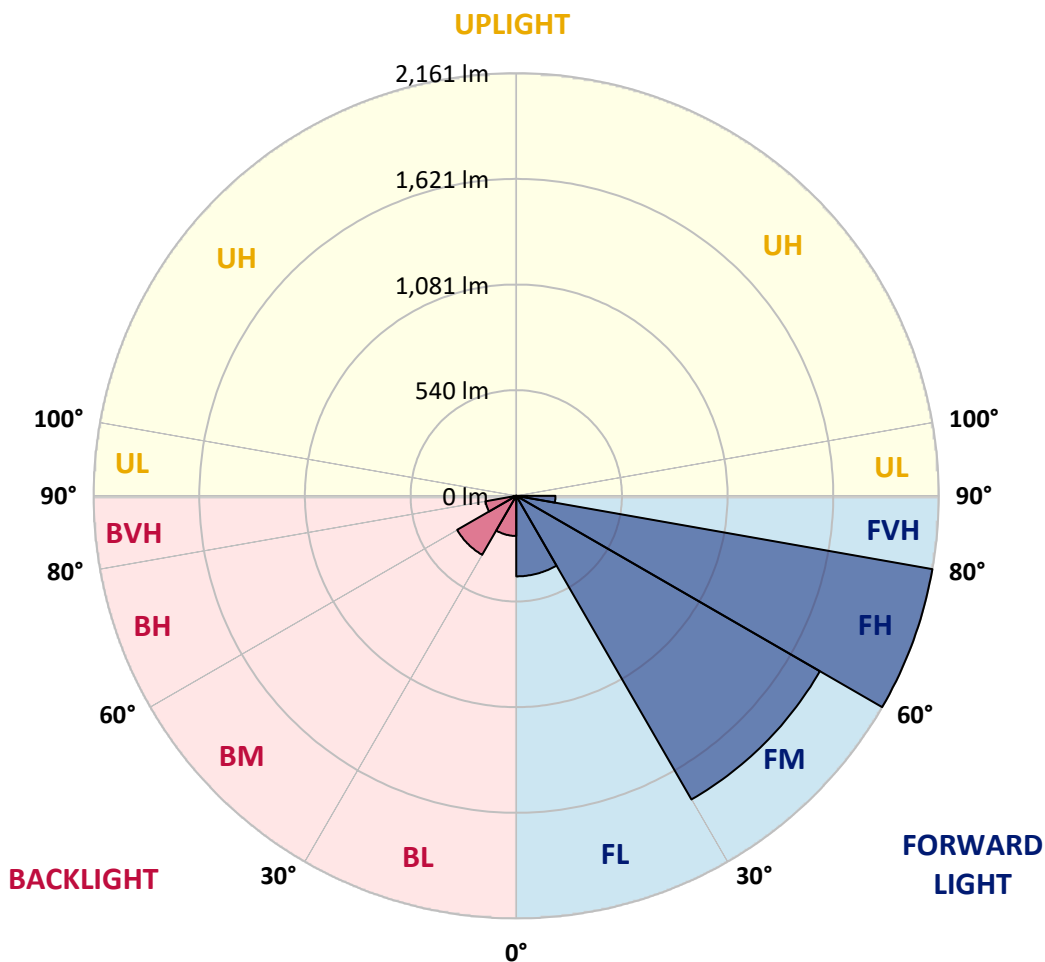


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.1	7.8			
FM (30°-60°)	1793.2	33.9			
FH (60°-80°)	2161.5	40.8			G2/5000
FVH (80°-90°)	200.4	3.8			G2/225
BL (0°-30°)	205.2	3.9	B1/500		
BM (30°-60°)	348.7	6.6	B1/1000		
BH (60°-80°)	160.2	3.0	B1/500		G1/500
BVH (80°-90°)	14.5	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1
2.5°	965.0	965.2	965.0	963.5	960.0	957.0	954.6	951.0	943.2	937.2	928.3
5°	974.1	973.0	972.3	969.5	963.9	960.5	955.9	949.2	936.3	924.4	909.7
7.5°	969.8	968.5	966.9	963.5	957.2	954.4	947.8	939.1	923.6	907.9	887.0
10°	956.6	956.2	955.5	954.7	949.3	947.1	941.1	931.8	916.5	897.5	873.0
12.5°	941.9	942.8	945.8	949.7	947.3	946.2	942.4	936.1	920.5	899.9	870.4
15°	932.6	935.2	943.2	953.4	955.5	955.1	954.2	950.1	933.5	910.7	876.4
17.5°	929.4	933.7	949.0	965.9	971.9	973.2	973.6	966.5	948.0	924.0	882.5
20°	935.2	940.6	962.9	986.2	995.8	996.6	994.9	982.5	961.8	935.4	885.9
22.5°	952.7	957.5	985.5	1011.8	1022.7	1023.8	1018.7	1000.1	976.4	948.8	890.6
25°	986.4	992.5	1020.4	1046.7	1052.3	1052.5	1045.2	1022.1	995.5	967.6	900.6
27.5°	1030.5	1036.4	1061.7	1087.4	1084.4	1082.7	1072.9	1049.7	1020.2	993.6	918.6
30°	1079.6	1086.1	1109.9	1128.2	1121.1	1117.8	1109.8	1079.9	1054.7	1029.0	946.0
32.5°	1130.2	1136.3	1157.2	1169.7	1160.7	1159.2	1147.1	1119.8	1099.7	1083.1	990.4
35°	1182.3	1186.6	1207.1	1214.3	1202.3	1201.9	1198.5	1173.6	1160.9	1168.7	1054.9
37.5°	1235.5	1236.6	1254.1	1254.5	1251.0	1252.5	1256.0	1240.4	1243.9	1268.3	1138.9
40°	1282.9	1285.9	1298.6	1302.5	1308.6	1313.9	1331.6	1321.3	1348.7	1392.0	1243.3
42.5°	1318.0	1323.7	1344.0	1354.2	1374.1	1382.3	1407.3	1416.8	1472.0	1537.0	1367.6
45°	1347.6	1356.6	1389.2	1409.9	1443.7	1458.1	1493.8	1525.8	1611.4	1694.2	1498.3
47.5°	1379.7	1391.1	1432.0	1471.5	1517.4	1533.6	1598.7	1646.4	1760.1	1852.4	1621.6
50°	1426.9	1435.7	1475.6	1537.7	1595.0	1615.9	1705.9	1774.4	1911.2	2003.1	1728.6
52.5°	1492.7	1489.4	1523.2	1610.3	1687.1	1712.8	1820.5	1910.6	2064.3	2139.5	1818.8
55°	1558.9	1553.4	1577.1	1686.2	1794.6	1821.6	1946.7	2047.4	2210.0	2262.3	1888.1
57.5°	1632.6	1622.0	1641.9	1771.8	1916.9	1949.3	2087.9	2192.7	2353.3	2361.5	1932.0
60°	1708.6	1694.2	1716.6	1878.0	2072.3	2110.4	2253.1	2334.5	2488.3	2440.9	1946.3
62.5°	1775.0	1764.9	1799.5	1996.4	2247.5	2289.3	2415.4	2485.2	2621.6	2474.0	1895.1
65°	1833.0	1834.7	1894.4	2129.6	2442.8	2487.4	2601.6	2670.9	2726.4	2454.4	1775.5
67.5°	1902.2	1911.7	2013.6	2304.9	2688.7	2737.5	2872.4	2873.5	2785.0	2339.5	1540.1
70°	2003.1	2022.8	2177.6	2548.2	3038.3	3105.4	3209.6	2992.6	2702.7	2028.0	1211.9
72.5°	2092.7	2129.2	2352.0	2826.6	3464.3	3515.3	3406.8	2923.9	2358.9	1519.8	754.9
74°	2056.3	2101.7	2383.7	2963.6	3624.8	3649.2	3340.2	2723.6	1966.8	1052.5	438.8
75°	1978.0	2027.2	2337.4	2962.3	3604.4	3590.8	3179.3	2494.7	1619.8	717.9	291.9
77.5°	1596.3	1648.4	1969.6	2538.9	2955.4	2942.6	2442.2	1673.5	709.5	235.4	148.3
80°	928.1	967.8	1222.7	1612.3	1992.9	2016.2	1606.2	828.1	279.1	132.3	100.5
82.5°	412.3	439.7	590.6	823.0	1202.6	1232.7	841.1	433.9	172.3	80.4	60.5
85°	270.5	290.8	358.6	391.9	572.7	593.2	411.7	337.9	113.8	44.2	44.4
87.5°	194.6	214.2	266.4	232.6	262.9	248.8	224.0	312.6	45.7	25.2	14.9
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°	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1	933.1
2.5°	924.4	921.4	914.6	901.9	894.8	888.9	879.0	873.2	870.6	870.4	871.6
5°	901.4	894.5	877.1	855.9	838.9	823.4	804.2	792.7	784.5	779.6	780.9
7.5°	874.7	863.9	836.6	802.7	775.5	745.4	715.8	698.1	684.2	674.0	675.8
10°	856.5	841.5	801.8	752.9	707.6	663.9	623.1	598.6	579.2	564.3	565.4
12.5°	850.3	830.1	775.1	709.8	646.2	586.5	533.1	495.7	475.6	458.7	460.0
15°	851.2	824.1	752.7	671.0	591.0	515.8	451.1	407.3	380.2	368.4	368.6
17.5°	852.0	817.2	729.2	629.4	536.3	449.8	379.4	335.1	309.5	298.7	298.8
20°	849.6	806.1	700.2	581.7	479.3	389.1	321.0	283.4	264.0	255.5	255.5
22.5°	846.4	792.8	667.3	533.7	422.9	336.6	279.3	250.5	239.3	233.7	233.5
25°	847.9	783.0	633.7	484.5	371.0	294.6	251.4	232.4	225.0	221.4	221.2
27.5°	855.9	778.3	602.7	435.4	325.7	263.1	232.8	219.4	214.5	212.3	212.3
30°	870.4	778.3	570.5	393.6	288.0	239.7	218.4	209.3	206.0	204.5	204.5
32.5°	895.8	782.6	539.3	352.2	258.0	221.4	206.5	200.4	197.8	197.0	197.0
35°	939.5	797.1	508.9	313.0	233.7	206.5	195.2	191.6	189.8	189.6	190.1
37.5°	1000.9	826.7	480.4	284.1	216.6	194.4	185.7	182.8	181.7	182.6	183.4
40°	1078.1	867.1	454.4	258.0	203.5	184.7	176.8	174.9	174.4	175.7	176.8
42.5°	1171.3	921.6	433.2	239.1	193.5	176.4	169.4	167.1	166.6	168.1	169.5
45°	1272.2	980.1	418.3	225.2	185.7	170.3	162.8	160.4	159.3	160.0	161.7
47.5°	1364.1	1035.5	412.3	215.3	178.1	165.1	157.1	154.1	152.2	151.8	153.1
50°	1441.5	1076.8	415.1	209.3	172.1	159.3	151.5	148.1	145.3	143.6	144.6
52.5°	1497.7	1102.7	417.7	206.7	167.5	153.0	145.3	142.2	138.4	135.6	135.6
55°	1538.6	1108.6	411.9	204.7	164.0	146.1	138.4	135.4	131.7	128.6	128.2
57.5°	1554.7	1091.9	390.4	201.7	161.5	139.5	131.2	128.9	125.8	122.0	121.8
60°	1533.0	1040.0	349.1	195.3	158.4	134.1	123.9	122.4	120.9	117.4	117.2
62.5°	1446.1	926.2	295.5	182.4	152.0	128.4	117.2	117.9	118.1	115.7	115.3
65°	1288.5	769.9	243.2	165.6	142.5	121.5	110.3	113.8	115.9	115.5	115.0
67.5°	1059.4	599.2	206.2	147.9	130.0	112.0	102.7	106.8	108.5	109.9	109.5
70°	786.3	422.5	170.5	129.3	115.0	100.7	93.1	95.1	94.0	95.5	96.0
72.5°	438.4	253.5	139.0	110.7	99.2	87.7	82.3	81.9	79.5	79.5	79.5
74°	263.1	186.0	122.2	99.0	89.7	79.1	74.4	72.8	70.5	70.7	70.5
75°	211.6	159.9	112.2	91.4	83.0	74.1	69.4	67.2	65.5	65.5	65.3
77.5°	133.6	121.5	90.3	72.8	66.4	61.0	57.8	54.9	54.9	54.7	54.5
80°	100.9	96.6	70.3	55.1	51.0	46.9	44.8	43.5	43.5	44.1	43.9
82.5°	69.2	72.8	49.5	38.5	36.3	33.3	33.0	33.2	32.6	31.9	31.7
85°	50.6	54.7	33.3	24.2	22.2	20.3	21.8	22.5	21.6	19.9	19.2
87.5°	19.4	35.8	17.9	10.1	9.3	8.0	9.3	9.7	10.4	8.2	8.4
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)