

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: P269083

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL4-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5657.2 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 66
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: 25 FT

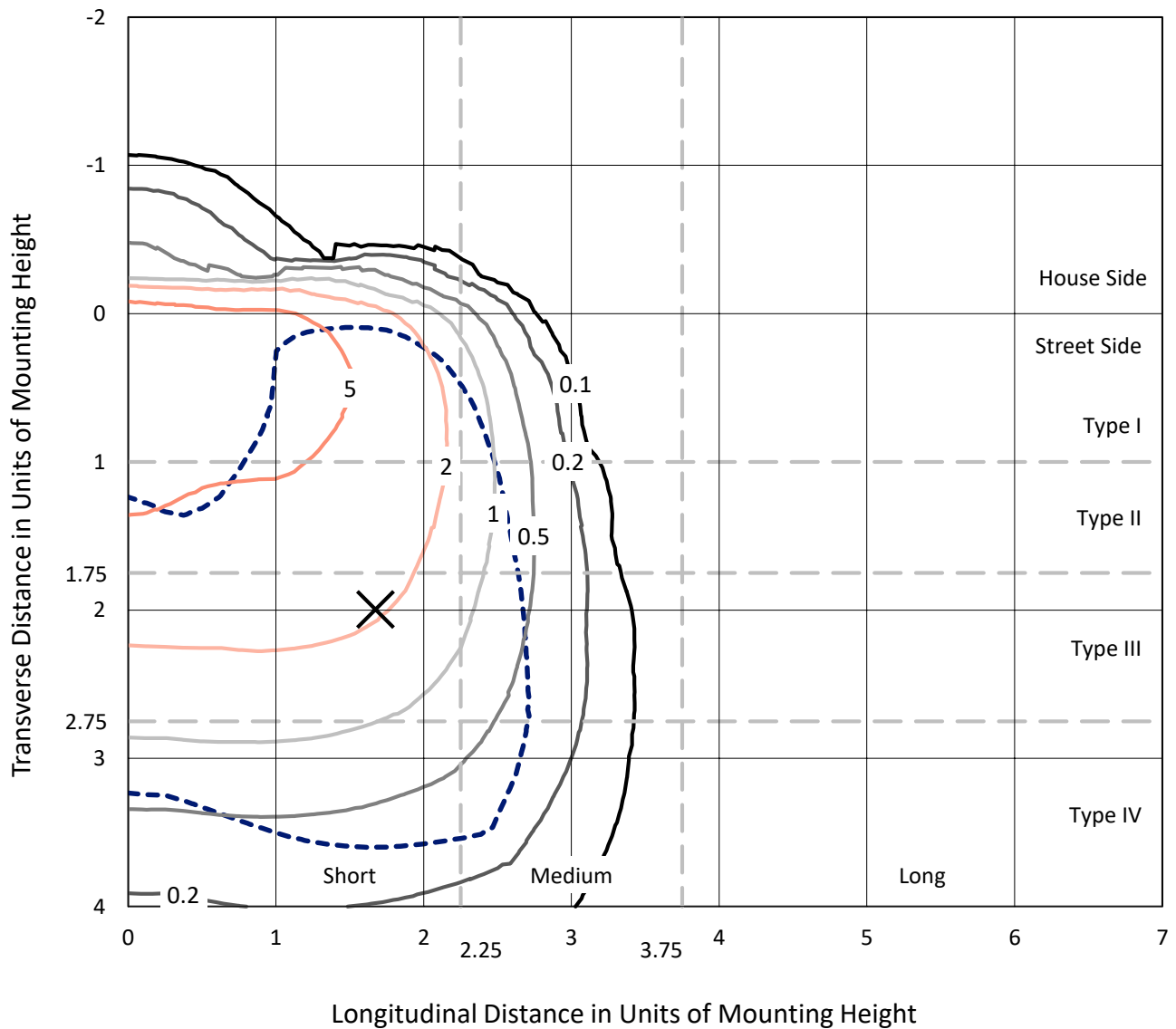


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

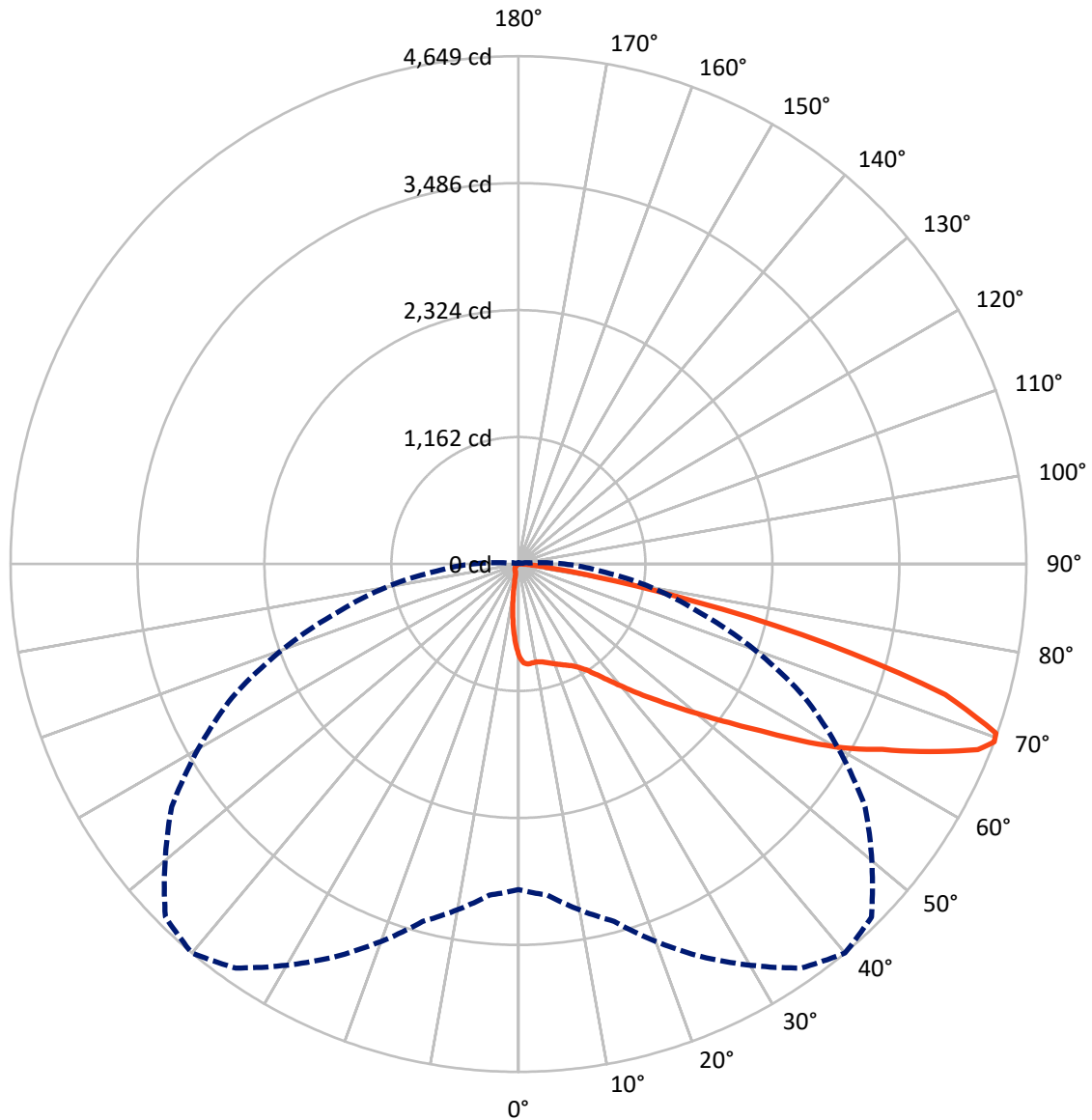


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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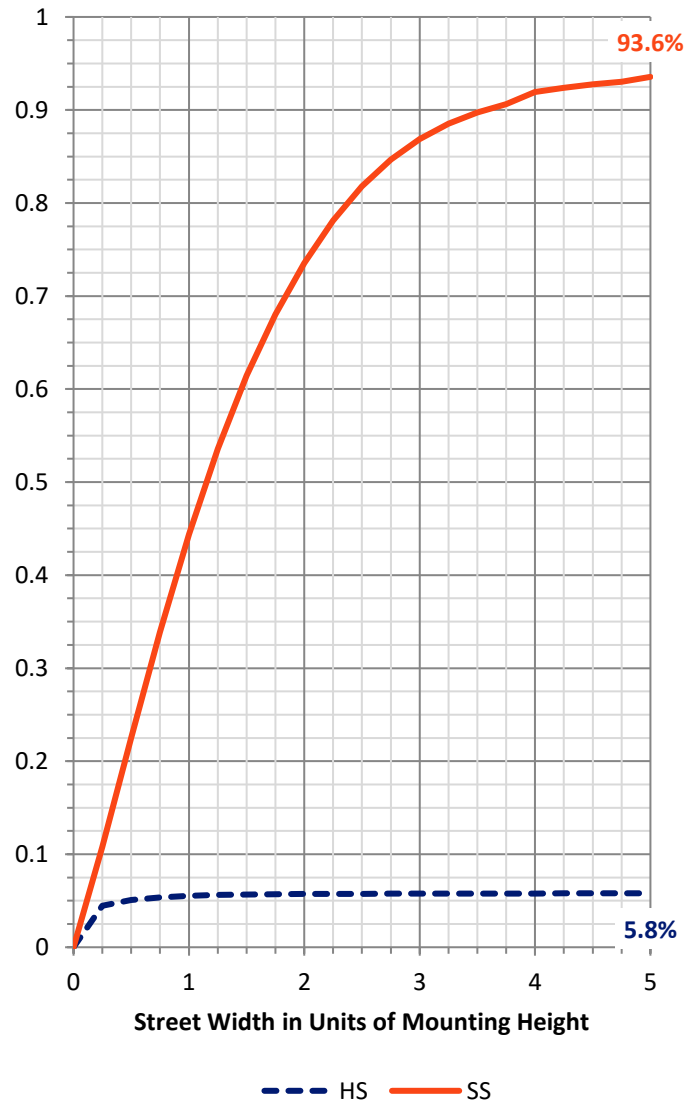
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	331.0	0.0	331.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5326.3	0.0	5326.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	5657.2	0.0	5657.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	1.2
10°-20°	168.5	3.0
20°-30°	283.9	5.0
30°-40°	464.7	8.2
40°-50°	804.6	14.2
50°-60°	1267.3	22.4
60°-70°	1655.1	29.3
70°-80°	852.4	15.1
80°-90°	92.2	1.6
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°	5657.2	100.0
0°-180°	5657.2	100.0

Coefficient of Utilization



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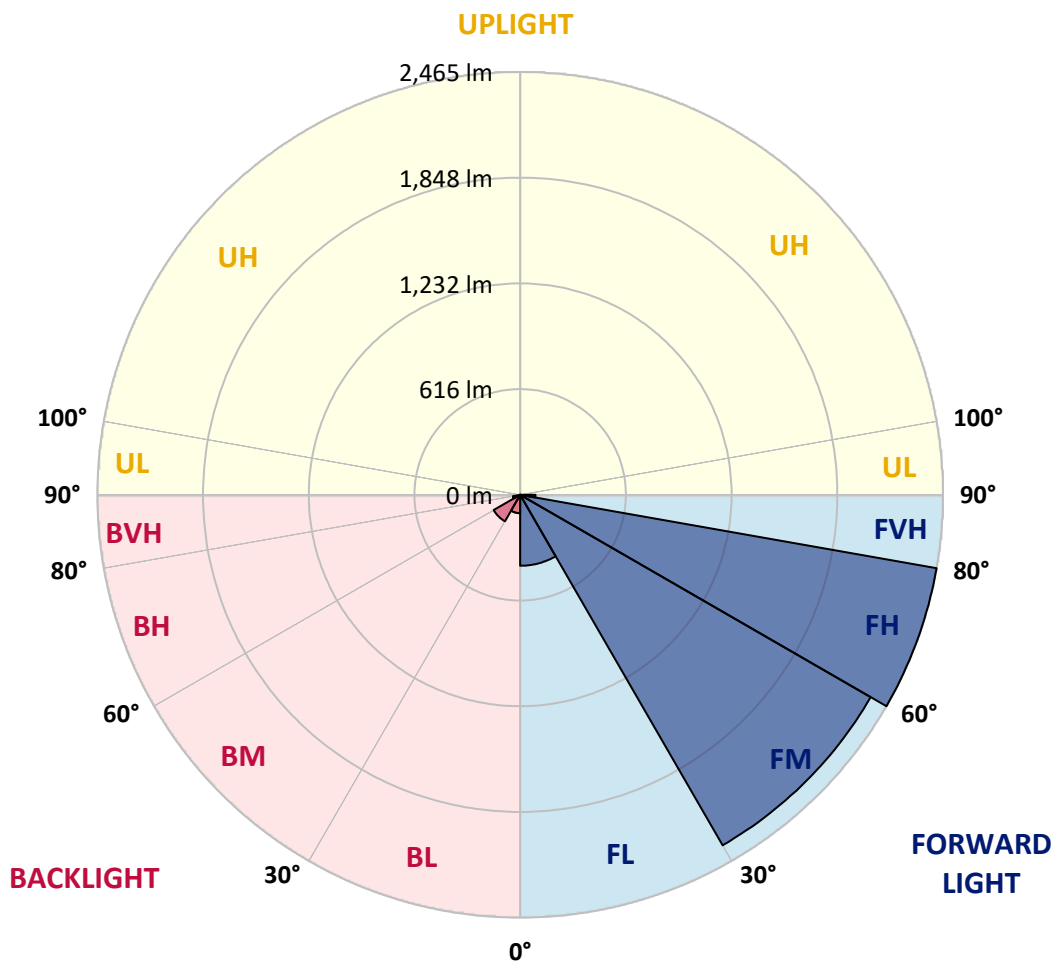
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.7	7.3			
FM	(30°-60°)	2358.7	41.7			
FH	(60°-80°)	2464.5	43.6			G2/5000
FVH	(80°-90°)	89.3	1.6			G1/100
BL	(0°-30°)	107.2	1.9	B0/110		
BM	(30°-60°)	177.9	3.1	B0/220		
BH	(60°-80°)	43.0	0.8	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	845.2	845.2	845.2	845.2	845.2	845.2	845.2	845.2	845.2	845.2	845.2
2.5°	928.0	923.0	920.0	915.9	910.9	906.5	904.9	892.3	880.6	864.3	845.9
5°	945.2	943.6	938.2	932.8	926.7	920.0	916.4	901.4	884.7	861.0	828.7
7.5°	947.0	944.8	938.2	930.7	922.3	914.2	907.8	893.0	877.6	853.6	814.3
10°	944.2	941.9	936.8	928.8	918.2	910.5	904.1	890.0	876.8	855.4	811.6
12.5°	941.2	938.9	936.6	932.4	923.4	918.0	912.6	899.2	887.3	869.1	821.3
15°	944.2	943.0	945.6	943.8	938.9	934.1	928.8	916.6	905.9	890.7	839.1
17.5°	957.1	957.1	965.5	966.4	961.7	955.0	947.3	935.1	926.1	913.2	860.3
20°	987.0	986.0	996.8	998.7	987.3	976.8	965.5	950.6	943.6	935.5	881.2
22.5°	1038.5	1033.8	1040.1	1038.3	1015.7	999.5	985.4	967.1	963.4	959.7	904.6
25°	1105.5	1102.8	1107.3	1087.4	1047.7	1025.8	1008.8	988.3	988.3	992.1	930.7
27.5°	1202.8	1192.7	1177.9	1143.0	1083.3	1055.4	1037.2	1015.3	1021.1	1034.8	965.5
30°	1302.5	1291.5	1257.4	1203.5	1126.7	1097.5	1076.2	1053.4	1066.7	1092.1	1011.9
32.5°	1400.8	1388.4	1340.2	1272.2	1189.0	1159.7	1139.2	1114.0	1136.4	1178.9	1079.9
35°	1496.1	1485.1	1429.5	1349.3	1271.9	1247.7	1228.8	1207.0	1235.9	1295.0	1175.9
37.5°	1603.2	1591.1	1523.4	1436.5	1372.6	1355.1	1341.3	1319.4	1369.8	1456.7	1309.5
40°	1734.8	1714.3	1623.1	1536.6	1489.1	1480.6	1471.2	1468.2	1546.6	1666.8	1487.8
42.5°	1885.7	1852.0	1727.5	1641.9	1616.9	1623.1	1620.7	1634.1	1768.0	1928.2	1704.7
45°	2036.5	1993.2	1843.7	1754.4	1757.9	1779.1	1792.2	1846.0	2045.0	2227.8	1938.0
47.5°	2164.6	2121.7	1955.2	1876.0	1916.4	1958.1	1993.9	2095.8	2329.9	2522.9	2119.5
50°	2274.0	2233.6	2073.3	2009.7	2100.5	2168.0	2225.9	2377.1	2636.3	2747.5	2246.8
52.5°	2363.6	2336.6	2195.8	2162.8	2311.1	2409.8	2494.7	2675.7	2907.8	2930.0	2345.7
55°	2450.8	2431.6	2327.6	2345.0	2558.3	2692.6	2799.9	2992.7	3141.5	3082.3	2440.8
57.5°	2551.1	2533.7	2477.7	2576.1	2883.2	3052.3	3169.4	3273.5	3347.3	3237.9	2530.3
60°	2653.6	2643.4	2644.8	2832.6	3256.3	3418.6	3483.3	3510.1	3549.3	3384.3	2535.3
62.5°	2751.1	2770.5	2835.7	3118.2	3613.6	3738.1	3770.8	3797.4	3751.6	3407.5	2342.4
65°	2916.5	2947.9	3103.7	3500.4	4006.6	4139.8	4173.5	4082.3	3783.7	3107.1	1905.2
67.5°	2997.4	3054.5	3332.7	3856.8	4387.7	4535.9	4523.4	4100.9	3395.4	2369.3	1222.8
69°	2980.4	3041.4	3385.6	3965.7	4514.3	4648.6	4569.6	3874.2	2892.6	1716.4	750.7
70°	2913.8	2975.5	3358.4	3961.7	4530.5	4637.0	4484.1	3594.4	2445.7	1255.0	469.5
72.5°	2433.2	2486.5	2981.6	3581.0	4173.5	4087.1	3751.3	2490.2	1191.7	341.7	105.7
75°	1497.8	1527.5	2139.4	2697.6	3152.2	2930.0	2499.4	1238.9	355.3	96.7	58.6
77.5°	791.3	804.8	1171.2	1590.1	1998.2	1653.4	1281.0	483.2	163.6	60.6	42.4
80°	467.7	477.9	630.7	727.0	864.8	722.2	512.2	296.7	117.1	38.1	37.6
82.5°	267.8	274.2	457.2	404.1	340.7	291.0	254.8	281.2	70.3	25.6	39.0
85°	98.4	99.7	257.3	307.4	202.7	120.6	126.7	233.0	18.9	16.2	30.6
87.5°	45.9	44.7	132.3	188.3	118.5	76.4	98.6	51.3	7.4	10.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	845.2	845.2	845.2	845.2	845.2	845.2	845.2	845.2	845.2	845.2	845.2
2.5°	835.2	822.7	800.1	776.9	753.3	735.2	717.2	703.2	698.4	689.7	690.3
5°	809.6	786.6	739.5	691.6	641.7	600.7	562.0	530.7	515.5	500.0	500.0
7.5°	787.4	753.9	680.2	602.5	521.9	454.3	393.3	347.6	322.2	302.1	301.7
10°	778.9	733.7	630.7	519.3	407.1	314.9	242.5	196.0	172.0	156.6	155.9
12.5°	782.7	726.6	592.6	442.4	301.7	202.4	140.4	110.4	100.3	95.6	95.6
15°	793.4	724.7	554.7	367.3	213.2	126.7	93.2	85.2	84.5	84.5	84.5
17.5°	806.5	725.3	515.5	294.4	145.2	90.5	80.5	79.5	80.2	80.2	80.2
20°	820.0	725.7	473.4	226.6	102.3	78.8	75.7	75.5	76.0	76.0	76.4
22.5°	836.5	727.4	431.4	169.4	84.5	74.4	72.0	72.0	72.5	72.5	72.0
25°	855.4	730.7	387.6	125.7	77.2	71.3	69.3	69.0	69.3	69.0	68.7
27.5°	878.9	735.4	338.8	98.4	73.8	68.4	66.7	66.7	66.4	65.9	65.7
30°	908.5	740.8	283.9	83.5	70.3	65.7	64.0	63.6	63.3	62.6	62.6
32.5°	953.6	752.6	229.6	75.7	66.7	62.0	60.6	60.6	59.9	59.3	58.8
35°	1023.0	775.9	181.2	71.1	62.6	57.9	56.2	56.2	55.5	55.2	54.8
37.5°	1119.0	811.2	140.8	66.7	58.6	53.5	51.8	51.6	50.8	50.1	49.9
40°	1246.6	854.9	110.9	62.6	54.5	49.1	47.8	47.2	45.9	44.7	44.7
42.5°	1406.9	904.9	89.9	58.3	49.9	45.2	44.0	43.1	40.8	39.7	39.3
45°	1574.5	949.6	76.0	53.2	45.2	41.1	40.5	38.7	35.8	34.7	34.7
47.5°	1695.6	960.1	67.1	48.5	40.8	36.7	36.4	33.3	30.6	30.0	29.6
50°	1770.9	939.4	59.6	43.7	36.7	32.7	31.7	27.9	26.3	25.6	25.2
52.5°	1821.8	902.7	53.5	39.7	33.0	28.9	26.6	24.0	22.5	21.9	21.9
55°	1862.5	851.0	47.5	36.0	30.0	26.0	22.5	20.5	19.3	18.5	18.5
57.5°	1874.0	780.5	41.4	33.0	26.9	22.8	19.3	17.8	16.2	15.8	15.8
60°	1790.9	653.5	36.7	29.3	24.3	19.9	16.9	15.1	13.5	13.1	12.8
62.5°	1571.6	505.7	32.2	26.0	21.2	17.2	14.6	12.4	11.0	11.0	11.0
65°	1198.8	339.1	28.2	22.5	18.5	14.6	12.4	10.2	9.4	9.4	9.7
67.5°	717.6	184.5	24.3	19.3	15.8	12.1	10.4	8.8	8.4	8.8	8.8
69°	420.5	108.4	21.9	17.2	13.8	10.8	9.2	7.7	8.4	8.8	8.8
70°	259.6	73.1	20.2	15.5	12.4	9.7	8.4	7.4	8.1	8.4	8.4
72.5°	72.5	37.6	16.2	12.1	10.2	8.1	6.7	6.7	7.7	8.1	8.1
75°	47.2	27.9	12.4	9.2	7.7	6.4	5.7	6.4	7.4	7.7	7.7
77.5°	39.0	22.8	10.2	7.4	6.4	6.1	5.4	5.7	6.7	7.0	7.0
80°	35.8	16.2	8.1	6.7	5.7	5.4	5.0	4.8	6.1	6.4	6.4
82.5°	34.0	12.8	7.0	6.1	5.4	4.8	4.4	4.8	5.4	5.7	6.1
85°	21.2	8.4	6.4	5.7	4.8	4.4	4.4	4.4	5.0	5.4	5.4
87.5°	7.7	6.7	5.7	4.8	4.0	4.0	4.0	4.0	4.4	5.0	5.0
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)