

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: P191219

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191219
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-01-LED-E1-SL4-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE 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: 5676.4 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - 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: 25 FT

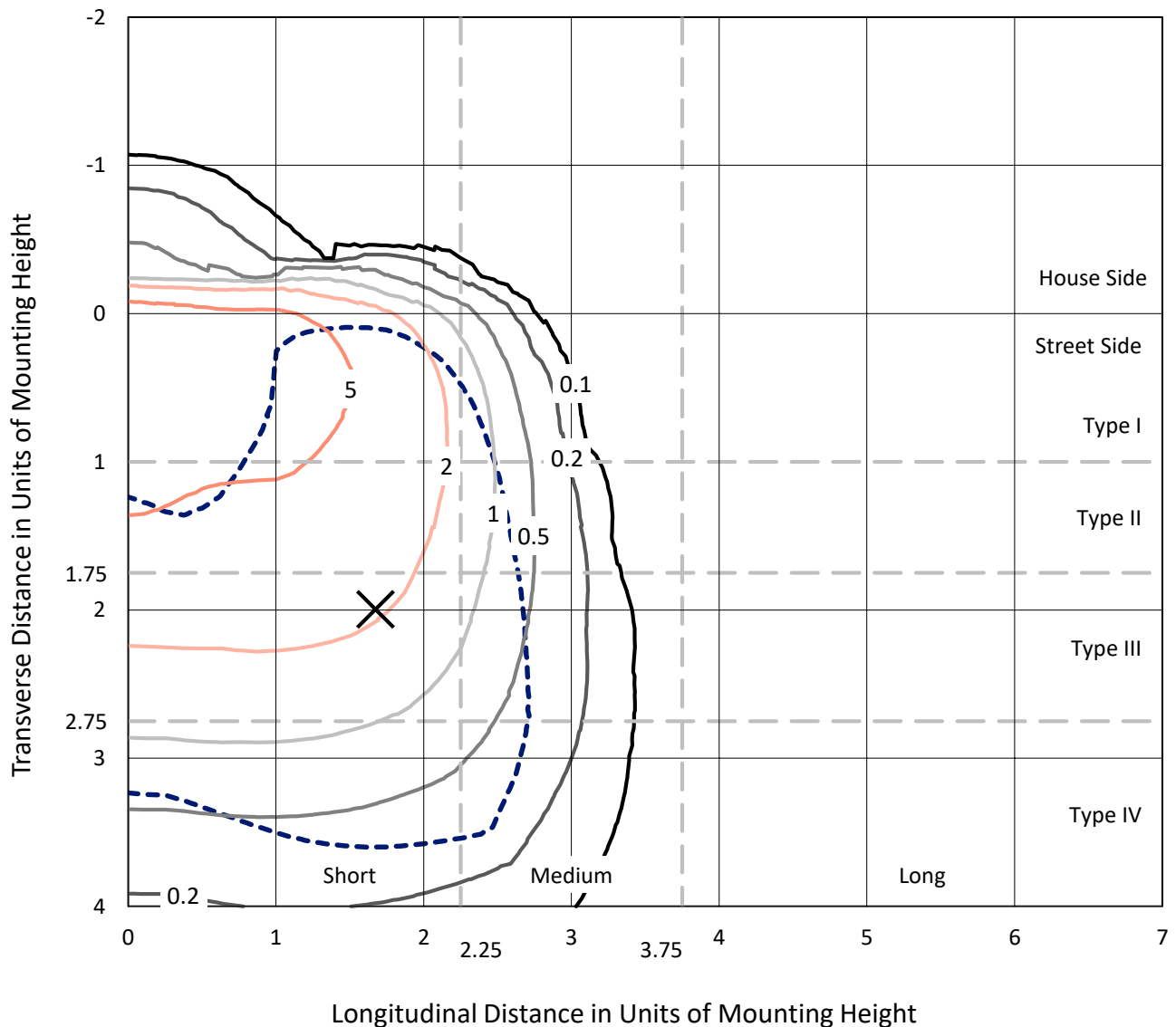


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

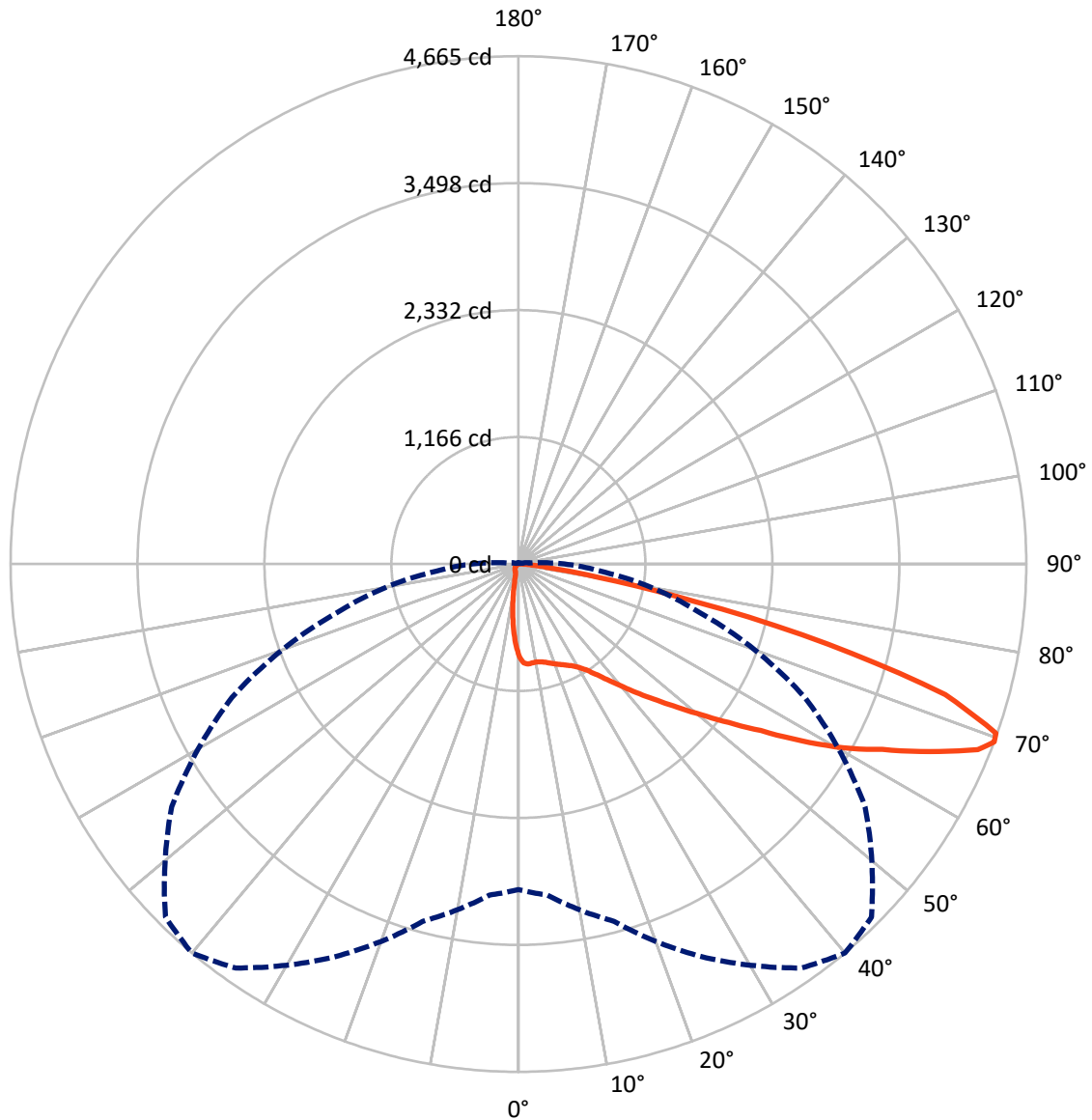


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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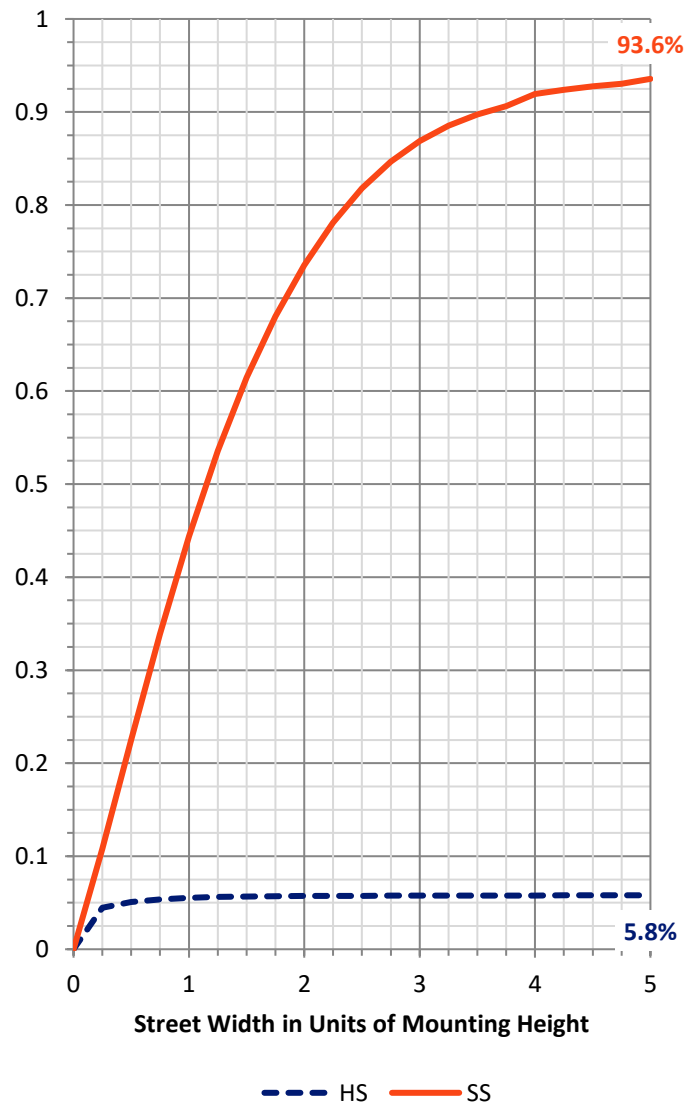
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	332.1	0.0	332.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5344.3	0.0	5344.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	5676.4	0.0	5676.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.2
10°-20°	169.1	3.0
20°-30°	284.8	5.0
30°-40°	466.3	8.2
40°-50°	807.3	14.2
50°-60°	1271.6	22.4
60°-70°	1660.7	29.3
70°-80°	855.3	15.1
80°-90°	92.5	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°	5676.4	100.0
0°-180°	5676.4	100.0

Coefficient of Utilization



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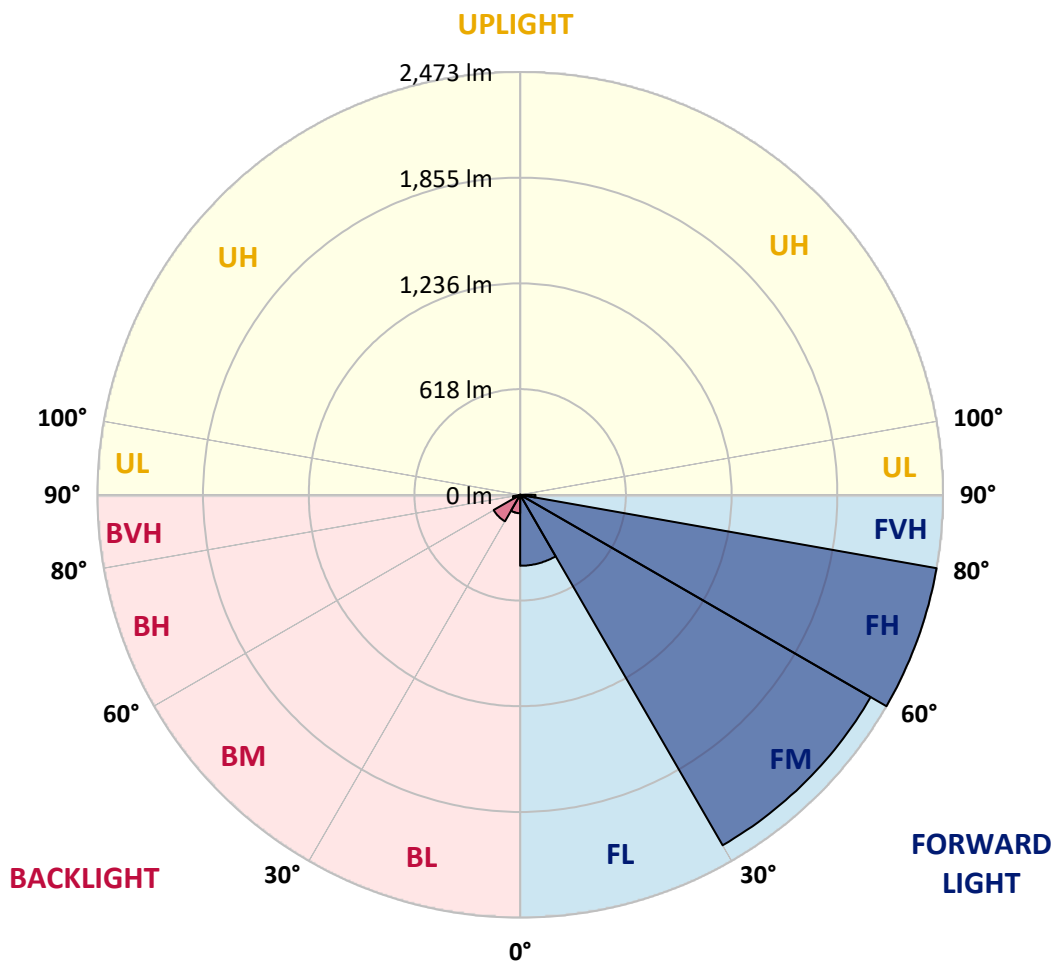
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	415.1	7.3			
FM	(30°-60°)	2366.7	41.7			
FH	(60°-80°)	2472.9	43.6			G2/5000
FVH	(80°-90°)	89.6	1.6			G1/100
BL	(0°-30°)	107.6	1.9	B0/110		
BM	(30°-60°)	178.5	3.1	B0/220		
BH	(60°-80°)	43.1	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°	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0
2.5°	931.2	926.1	923.1	919.0	914.0	909.6	907.9	895.4	883.5	867.4	848.7
5°	948.4	946.7	941.3	935.9	929.9	923.1	919.3	904.5	887.6	864.0	831.6
7.5°	950.1	948.1	941.3	933.9	925.5	917.4	910.9	896.1	880.6	856.5	817.0
10°	947.5	945.0	940.0	931.9	921.4	913.6	907.3	893.0	879.8	858.3	814.3
12.5°	944.4	942.0	939.7	935.6	926.5	921.1	915.6	902.1	890.3	872.1	824.1
15°	947.5	946.0	948.8	947.0	942.0	937.2	931.9	919.7	908.9	893.6	842.0
17.5°	960.2	960.2	968.7	969.8	964.9	958.2	950.4	938.3	929.1	916.4	863.3
20°	990.3	989.3	1000.1	1002.2	990.6	980.2	968.7	953.8	946.7	938.7	884.2
22.5°	1042.0	1037.3	1043.7	1041.7	1019.1	1002.8	988.7	970.4	966.7	963.0	907.6
25°	1109.3	1106.5	1110.9	1091.0	1051.2	1029.2	1012.3	991.6	991.6	995.4	933.9
27.5°	1206.9	1196.8	1181.9	1146.7	1087.0	1059.0	1040.6	1018.7	1024.5	1038.3	968.7
30°	1306.9	1295.8	1261.6	1207.6	1130.6	1101.1	1079.8	1056.9	1070.4	1095.8	1015.3
32.5°	1405.5	1393.1	1344.8	1276.5	1193.1	1163.6	1143.0	1117.7	1140.4	1182.9	1083.6
35°	1501.2	1490.0	1434.3	1353.9	1276.1	1251.9	1233.0	1211.0	1240.0	1299.5	1179.9
37.5°	1608.7	1596.5	1528.6	1441.4	1377.2	1359.6	1345.8	1323.8	1374.5	1461.7	1314.0
40°	1740.8	1720.1	1628.5	1541.8	1494.1	1485.6	1476.2	1473.2	1551.9	1672.5	1492.8
42.5°	1892.2	1858.3	1733.3	1647.5	1622.5	1628.5	1626.2	1639.7	1773.9	1934.7	1710.4
45°	2043.4	1999.9	1849.9	1760.4	1763.8	1785.0	1798.1	1852.3	2051.9	2235.5	1944.5
47.5°	2171.9	2129.0	1961.7	1882.3	1922.8	1964.8	2000.6	2103.0	2337.7	2531.4	2126.6
50°	2281.7	2241.2	2080.3	2016.4	2107.7	2175.3	2233.4	2385.1	2645.2	2756.8	2254.4
52.5°	2371.6	2344.5	2203.3	2170.2	2318.8	2417.8	2503.1	2684.8	2917.6	2939.9	2353.7
55°	2459.1	2439.8	2335.4	2353.0	2566.9	2701.7	2809.4	3002.8	3152.1	3092.6	2448.9
57.5°	2559.7	2542.2	2486.1	2584.8	2892.9	3062.5	3180.1	3284.5	3358.6	3248.7	2538.9
60°	2662.5	2652.3	2653.7	2842.3	3267.3	3430.2	3495.0	3522.0	3561.2	3395.7	2543.9
62.5°	2760.4	2779.8	2845.2	3128.8	3625.7	3750.8	3783.6	3810.3	3764.4	3419.0	2350.3
65°	2926.4	2957.8	3114.3	3512.3	4020.1	4153.9	4187.7	4096.1	3796.4	3117.6	1911.7
67.5°	3007.5	3064.9	3344.0	3869.7	4402.6	4551.2	4538.7	4114.7	3406.8	2377.3	1226.8
69°	2990.6	3051.8	3397.0	3979.2	4529.6	4664.5	4585.1	3887.3	2902.4	1722.1	753.1
70°	2923.7	2985.5	3369.7	3975.2	4545.8	4652.6	4499.2	3606.5	2454.1	1259.3	471.0
72.5°	2441.5	2494.9	2991.6	3593.0	4187.7	4100.8	3763.9	2498.7	1195.7	343.0	106.1
75°	1502.9	1532.6	2146.6	2706.7	3162.9	2939.9	2507.8	1243.1	356.5	97.0	58.8
77.5°	794.0	807.5	1175.2	1595.5	2005.0	1659.0	1285.3	484.9	164.2	60.9	42.6
80°	469.3	479.5	632.8	729.5	867.7	724.8	513.9	297.7	117.5	38.2	37.8
82.5°	268.6	275.1	458.8	405.5	342.0	292.0	255.7	282.1	70.6	25.7	39.2
85°	98.6	100.0	258.1	308.5	203.4	120.9	127.1	233.8	18.9	16.3	30.8
87.5°	45.9	44.9	132.8	188.8	119.0	76.7	99.0	51.4	7.5	10.4	8.5
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°	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0	848.0
2.5°	837.9	825.4	802.8	779.5	755.9	737.5	719.6	705.5	700.7	692.0	692.6
5°	812.2	789.3	741.9	694.0	643.9	602.8	564.0	532.5	517.3	501.8	501.8
7.5°	789.9	756.5	682.5	604.5	523.8	455.8	394.7	348.7	323.4	303.1	302.7
10°	781.5	736.2	632.8	521.0	408.5	315.9	243.3	196.6	172.7	157.1	156.4
12.5°	785.2	729.2	594.6	444.0	302.7	203.1	140.9	110.8	100.7	96.0	96.0
15°	796.1	727.1	556.5	368.7	213.9	127.1	93.6	85.5	84.8	84.8	84.8
17.5°	809.3	727.8	517.3	295.3	145.7	90.9	80.7	79.8	80.4	80.4	80.4
20°	822.8	728.1	475.1	227.4	102.7	79.1	76.0	75.7	76.3	76.3	76.7
22.5°	839.3	729.8	432.8	169.9	84.8	74.7	72.3	72.3	72.6	72.6	72.3
25°	858.3	733.1	388.9	126.0	77.3	71.6	69.6	69.3	69.6	69.3	68.9
27.5°	881.9	738.0	339.9	98.6	74.0	68.6	66.9	66.9	66.6	66.2	65.9
30°	911.6	743.4	284.8	83.8	70.6	65.9	64.2	63.8	63.5	62.8	62.8
32.5°	956.9	755.1	230.5	76.0	66.9	62.2	60.9	60.9	60.1	59.4	59.1
35°	1026.4	778.5	181.8	71.3	62.8	58.1	56.5	56.5	55.8	55.4	55.0
37.5°	1122.8	814.0	141.3	66.9	58.8	53.7	52.1	51.7	51.0	50.3	50.0
40°	1250.9	857.8	111.2	62.8	54.7	49.3	48.0	47.3	45.9	44.9	44.9
42.5°	1411.7	907.9	90.2	58.4	50.0	45.3	44.3	43.3	40.9	39.9	39.5
45°	1579.9	952.8	76.3	53.4	45.3	41.2	40.5	38.9	35.8	34.8	34.8
47.5°	1701.3	963.3	67.2	48.7	40.9	36.8	36.5	33.5	30.8	30.1	29.8
50°	1776.9	942.6	59.8	43.9	36.8	32.7	31.7	28.0	26.4	25.7	25.4
52.5°	1827.9	905.8	53.7	39.9	33.1	29.1	26.7	24.0	22.6	22.0	22.0
55°	1868.8	853.9	47.7	36.1	30.1	26.0	22.6	20.6	19.2	18.6	18.6
57.5°	1880.3	783.2	41.5	33.1	27.0	23.0	19.2	17.9	16.3	15.9	15.9
60°	1796.8	655.8	36.8	29.4	24.3	19.9	16.9	15.2	13.5	13.2	12.9
62.5°	1576.9	507.5	32.4	26.0	21.3	17.2	14.5	12.5	11.2	11.2	11.2
65°	1202.9	340.2	28.3	22.6	18.6	14.5	12.5	10.1	9.4	9.4	9.8
67.5°	720.1	185.2	24.3	19.2	15.9	12.2	10.4	8.8	8.5	8.8	8.8
69°	422.0	108.8	22.0	17.2	13.8	10.8	9.1	7.8	8.5	8.8	8.8
70°	260.5	73.3	20.3	15.5	12.5	9.8	8.5	7.5	8.1	8.5	8.5
72.5°	72.6	37.8	16.3	12.2	10.1	8.1	6.8	6.8	7.8	8.1	8.1
75°	47.3	28.0	12.5	9.1	7.8	6.4	5.7	6.4	7.5	7.8	7.8
77.5°	39.2	23.0	10.1	7.5	6.4	6.0	5.4	5.7	6.8	7.1	7.1
80°	35.8	16.3	8.1	6.8	5.7	5.4	5.1	4.7	6.0	6.4	6.4
82.5°	34.2	12.9	7.1	6.0	5.4	4.7	4.4	4.7	5.4	5.7	6.0
85°	21.3	8.5	6.4	5.7	4.7	4.4	4.4	4.4	5.1	5.4	5.4
87.5°	7.8	6.8	5.7	4.7	4.1	4.1	4.1	4.1	4.4	5.1	5.1
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)