

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: P269082

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6624 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - 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

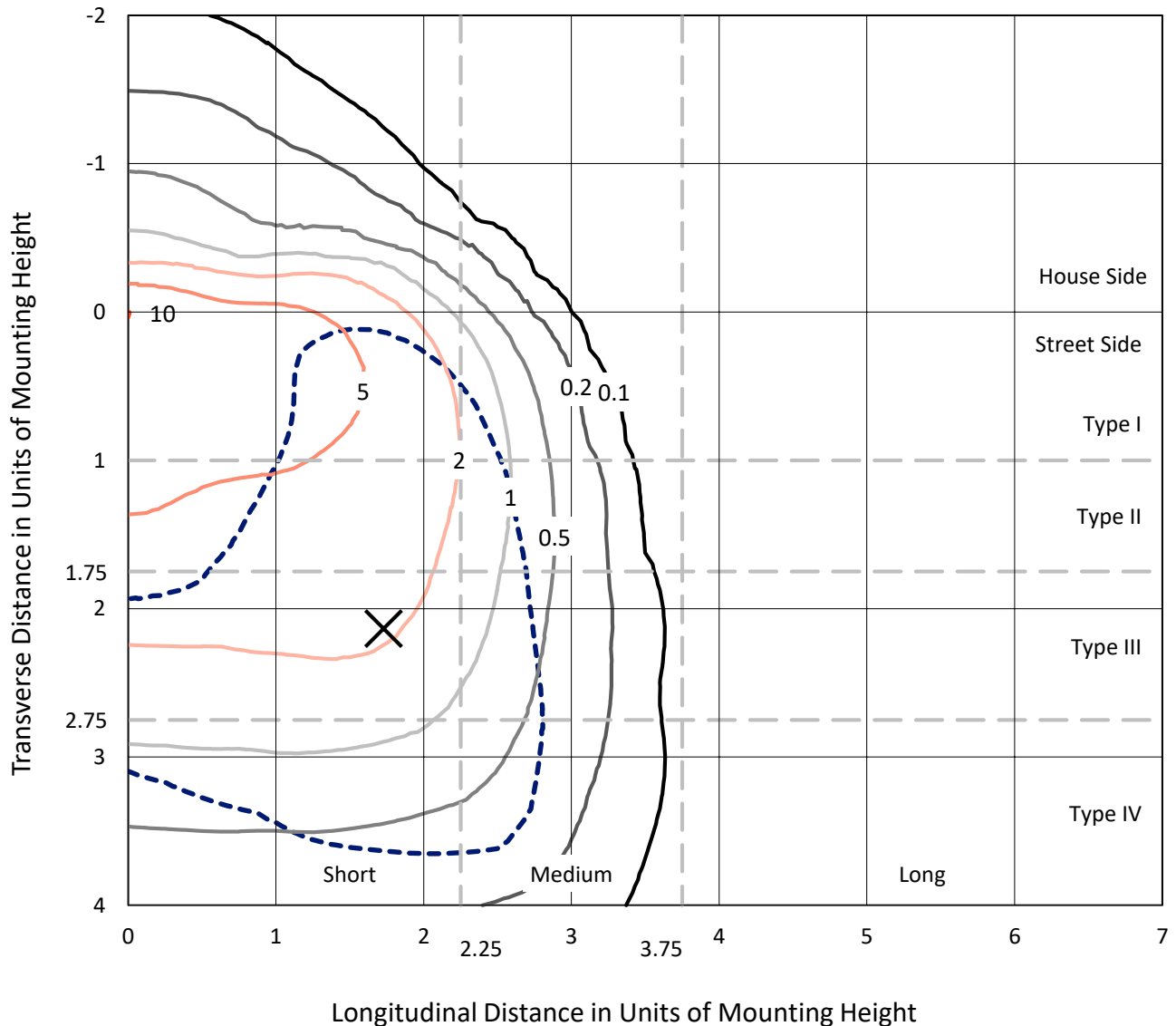


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Iso-Footcandle Lines of Horizontal Illumination

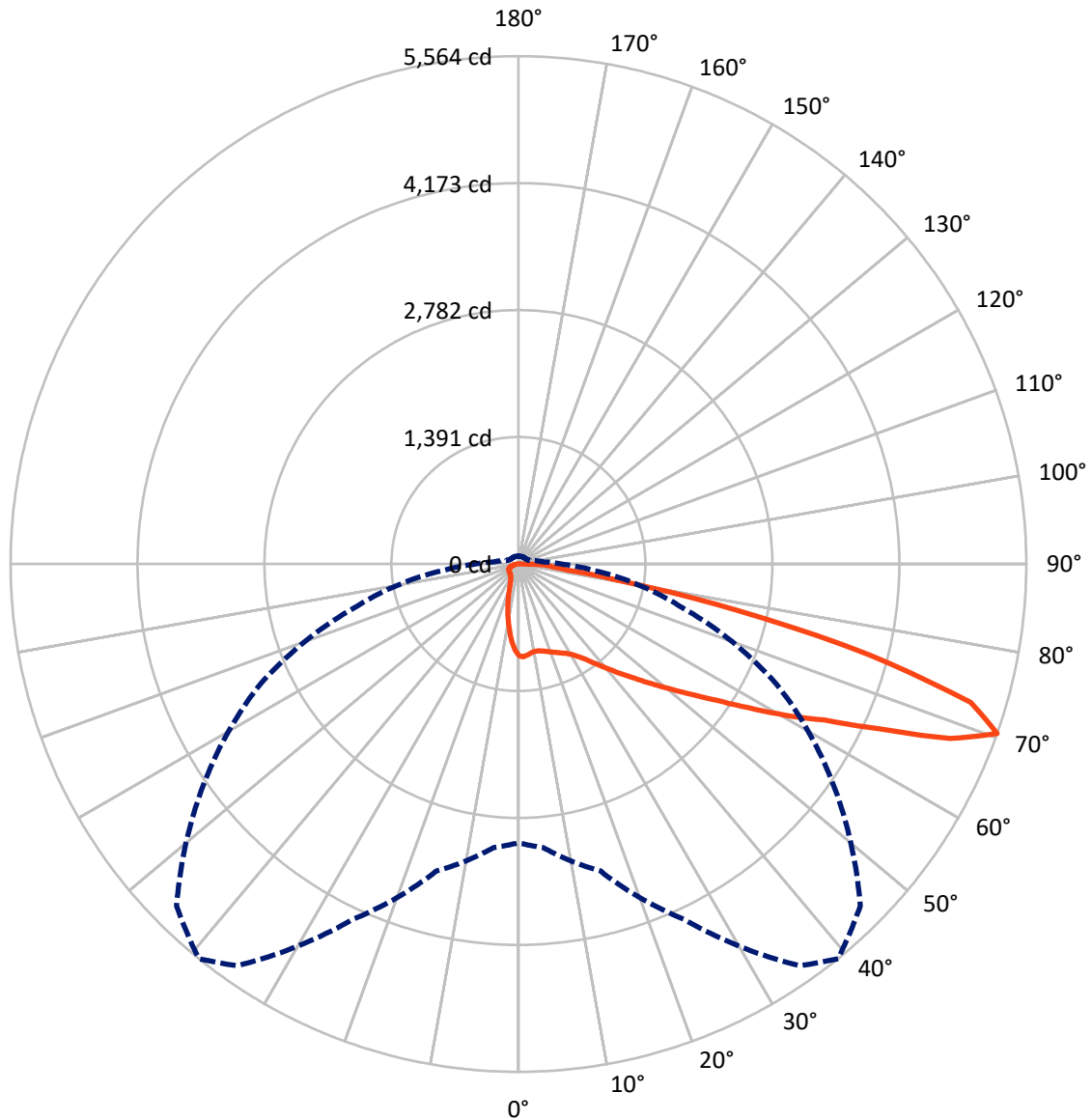
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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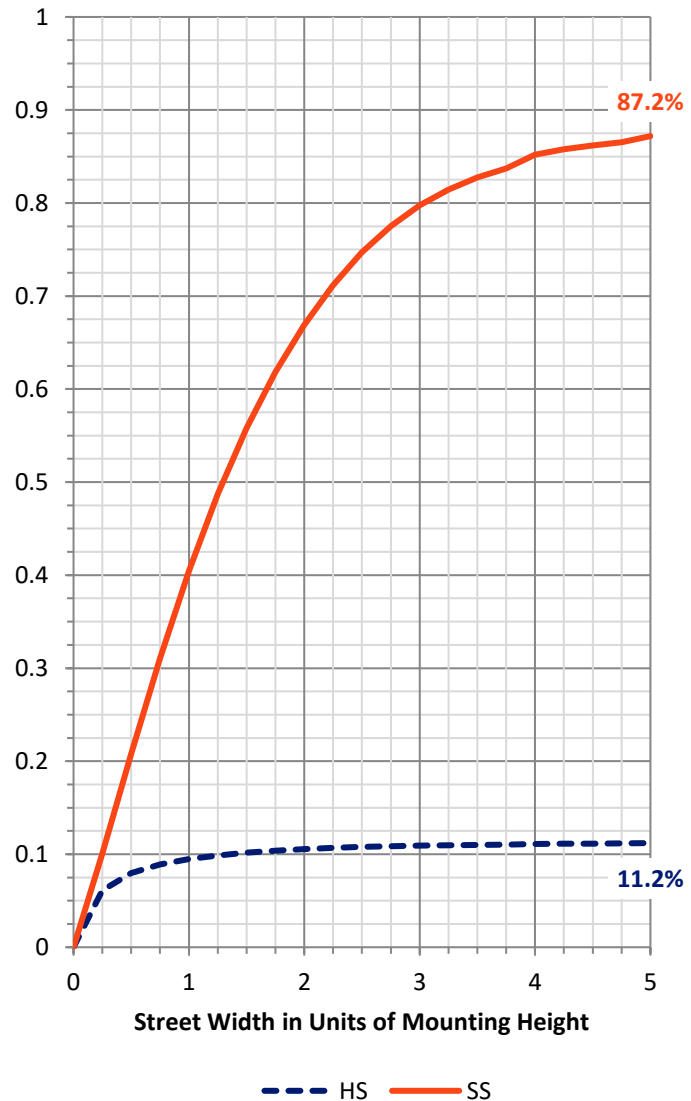
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	753.4	0.0	753.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	5870.6	0.0	5870.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	6624.0	0.0	6624.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.3
10°-20°	215.7	3.3
20°-30°	335.9	5.1
30°-40°	523.2	7.9
40°-50°	878.4	13.3
50°-60°	1395.5	21.1
60°-70°	1861.4	28.1
70°-80°	1124.1	17.0
80°-90°	203.4	3.1
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°	6624.0	100.0
0°-180°	6624.0	100.0



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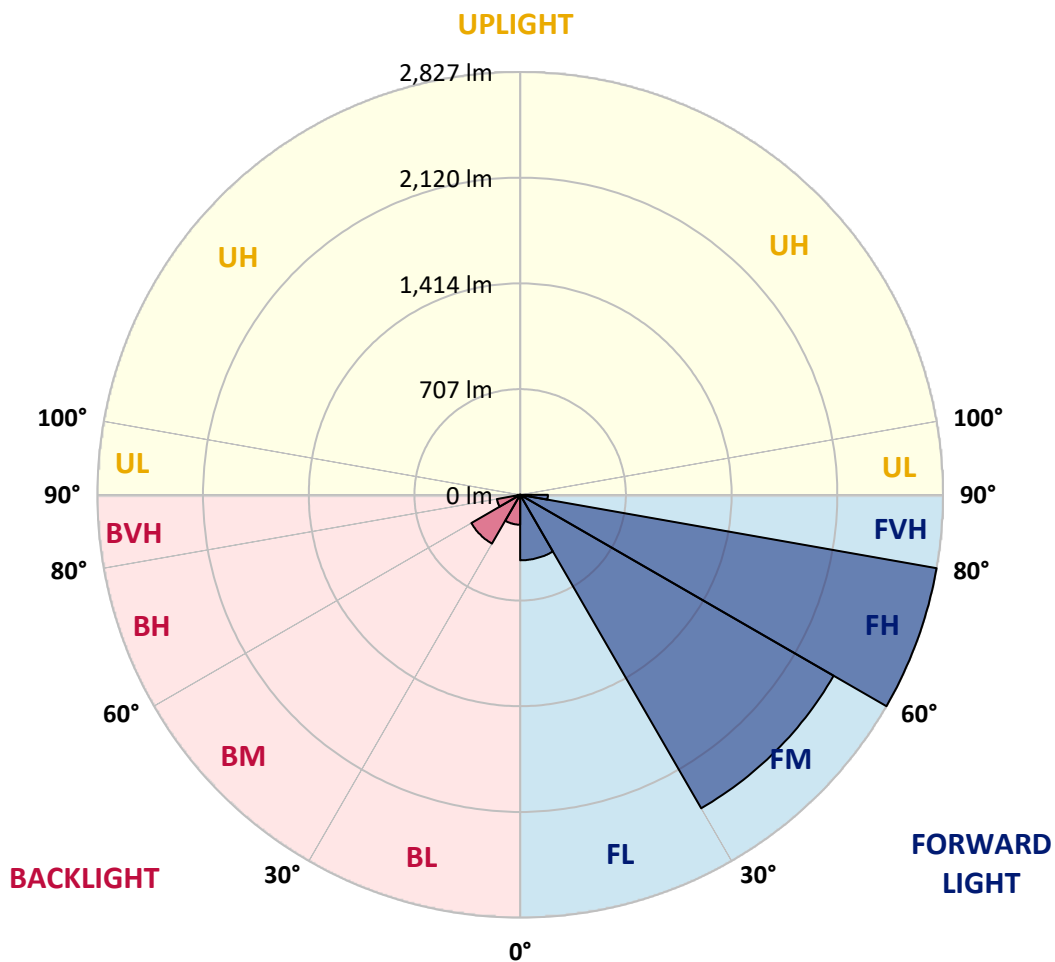
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.1	6.6			
FM	(30°-60°)	2420.2	36.5			
FH	(60°-80°)	2827.3	42.7			G2/5000
FVH	(80°-90°)	185.1	2.8			G2/225
BL	(0°-30°)	199.9	3.0	B1/500		
BM	(30°-60°)	377.0	5.7	B1/1000		
BH	(60°-80°)	158.2	2.4	B1/500		G1/500
BVH	(80°-90°)	18.3	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°	39°	45°	55°	65°	75°	85°
0°	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7
2.5°	1025.1	1024.8	1022.1	1020.1	1018.4	1017.8	1019.0	1014.0	1009.7	1004.2	998.6
5°	1017.4	1017.2	1012.7	1008.6	1004.7	1003.2	1003.0	993.9	988.5	980.4	969.6
7.5°	1008.9	1007.3	1001.6	994.9	987.7	984.5	981.0	969.2	963.3	955.1	942.6
10°	1000.3	998.2	992.8	986.1	979.3	974.3	968.6	957.1	950.8	944.7	930.1
12.5°	991.1	989.5	988.1	985.1	980.4	976.0	971.5	961.8	955.1	948.0	931.3
15°	989.8	989.2	992.2	994.2	991.5	988.8	984.1	975.6	968.6	961.5	939.5
17.5°	1000.6	1000.3	1008.0	1013.4	1012.0	1007.3	1000.9	991.5	985.8	979.7	952.5
20°	1024.2	1025.9	1035.2	1042.4	1035.6	1028.9	1018.4	1005.4	1002.2	999.5	965.6
22.5°	1068.7	1070.3	1077.0	1079.8	1062.2	1052.5	1037.9	1021.2	1019.0	1021.2	981.4
25°	1138.1	1136.3	1135.3	1125.1	1093.1	1078.1	1059.6	1042.0	1043.0	1052.2	1003.5
27.5°	1229.9	1220.8	1206.8	1176.4	1125.5	1108.7	1086.1	1069.9	1076.3	1093.9	1037.0
30°	1325.2	1315.1	1282.5	1233.0	1167.9	1149.4	1124.1	1106.1	1122.8	1150.5	1081.4
32.5°	1413.5	1412.1	1364.3	1300.7	1226.5	1210.3	1185.1	1164.7	1192.0	1233.9	1148.0
35°	1509.8	1512.8	1455.6	1379.1	1305.6	1288.9	1270.7	1255.2	1291.6	1349.4	1244.7
37.5°	1612.8	1618.9	1551.3	1465.0	1396.0	1388.9	1378.1	1371.4	1427.6	1507.7	1379.7
40°	1750.5	1744.5	1650.5	1562.1	1506.7	1506.4	1503.0	1511.0	1604.7	1714.5	1553.2
42.5°	1898.1	1880.2	1755.9	1666.0	1628.4	1639.8	1646.6	1679.6	1817.9	1965.9	1764.7
45°	2057.1	2017.0	1865.4	1776.2	1763.5	1787.6	1810.5	1882.3	2068.8	2251.7	1996.5
47.5°	2184.0	2145.3	1978.5	1891.7	1919.7	1956.4	2000.4	2114.0	2349.7	2547.1	2225.1
50°	2284.0	2258.8	2092.7	2026.3	2091.8	2148.3	2220.4	2376.3	2642.1	2834.7	2436.9
52.5°	2381.0	2362.3	2207.9	2164.5	2293.8	2372.0	2470.0	2657.8	2941.8	3117.6	2615.1
55°	2468.6	2455.2	2331.9	2336.6	2531.7	2633.3	2756.5	2978.5	3268.5	3369.8	2766.1
57.5°	2567.3	2550.1	2473.4	2552.4	2837.0	2969.1	3129.3	3338.8	3575.0	3594.1	2880.9
60°	2666.6	2651.7	2630.2	2801.6	3225.1	3363.8	3515.6	3688.1	3885.8	3768.2	2874.0
62.5°	2752.9	2754.6	2792.7	3063.4	3604.9	3765.5	3950.7	4121.2	4167.0	3798.6	2661.6
65°	2899.0	2925.6	3039.1	3433.9	4139.7	4354.5	4582.0	4554.6	4244.9	3515.2	2205.9
67.5°	3072.8	3119.6	3349.6	3927.5	4815.6	5100.8	5188.8	4652.6	3933.3	2857.6	1572.5
70°	3055.2	3119.6	3483.6	4295.6	5372.7	5563.9	5297.2	4210.7	3123.2	1866.8	835.2
72.5°	2713.2	2805.0	3210.5	4127.0	5197.2	5180.3	4598.8	3139.1	1855.7	749.6	326.4
75°	2067.9	2160.9	2509.7	3260.4	4107.7	3966.2	3263.1	1734.1	704.2	297.7	205.8
77.5°	1189.5	1261.6	1531.0	1999.4	2606.1	2460.8	1816.3	771.3	342.9	207.5	160.6
80°	664.1	704.2	867.9	1014.4	1277.1	1170.6	812.6	479.2	255.9	150.6	124.0
82.5°	525.0	560.7	701.8	640.0	583.3	538.2	466.8	426.8	204.5	95.0	74.1
85°	458.8	492.7	594.0	503.8	398.4	365.4	379.3	420.0	159.0	57.2	63.3
87.5°	425.0	470.5	529.5	388.2	310.2	274.8	349.9	460.4	51.3	35.8	25.6
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°	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7	1005.7
2.5°	993.4	988.1	979.3	971.5	959.5	953.1	946.0	941.0	936.9	933.6	939.0
5°	962.9	952.7	934.2	914.4	890.8	872.3	856.8	842.3	832.2	825.5	830.2
7.5°	933.9	917.3	888.5	852.4	812.0	777.7	749.4	724.5	707.2	696.1	700.5
10°	917.3	896.9	852.0	795.4	735.9	682.4	637.8	599.4	572.8	557.7	560.1
12.5°	913.3	886.7	824.7	747.0	665.5	591.1	528.5	475.3	437.8	418.3	419.0
15°	916.5	882.3	799.2	700.5	597.5	503.5	425.3	360.7	317.2	295.1	294.6
17.5°	921.4	879.0	772.3	650.4	528.5	419.2	332.1	268.8	230.3	212.4	211.1
20°	926.8	873.6	741.9	596.0	456.7	341.1	260.0	210.6	186.3	176.4	175.8
22.5°	934.5	868.9	710.6	538.9	386.4	277.8	213.8	180.5	167.8	162.7	162.0
25°	947.1	866.5	677.2	479.2	323.0	232.4	186.3	165.6	158.3	154.9	154.6
27.5°	968.0	869.9	645.9	421.3	271.5	201.7	170.8	158.3	152.9	149.8	149.6
30°	994.9	880.3	613.0	366.4	231.4	180.9	161.3	153.3	148.8	145.9	145.9
32.5°	1039.7	897.9	578.2	318.9	202.7	166.4	154.2	148.8	145.2	142.8	142.4
35°	1105.6	930.9	545.9	279.6	182.1	155.9	148.2	144.2	141.5	140.0	140.0
37.5°	1201.7	983.0	517.3	251.3	169.7	148.8	142.4	139.4	137.7	137.7	137.7
40°	1330.6	1055.1	494.1	232.4	162.7	143.8	138.1	135.7	134.7	135.0	135.0
42.5°	1489.8	1148.8	478.5	219.2	159.3	140.8	135.0	132.9	132.1	131.7	132.1
45°	1671.4	1255.2	476.9	209.5	155.9	138.8	132.9	131.1	128.9	127.6	127.6
47.5°	1848.0	1363.3	490.7	206.2	152.3	136.5	131.3	129.4	126.3	123.2	123.2
50°	2003.8	1455.3	509.2	207.5	150.8	132.9	128.6	127.6	122.9	119.6	119.3
52.5°	2127.7	1526.0	524.4	211.6	152.3	130.7	125.3	125.7	120.6	116.9	116.5
55°	2227.2	1572.5	520.3	215.6	155.2	129.4	122.3	122.9	118.8	115.3	115.3
57.5°	2270.6	1555.2	475.6	212.2	157.7	129.6	120.0	122.6	119.3	115.8	115.8
60°	2177.3	1402.8	391.8	197.4	154.6	128.6	118.8	124.0	123.5	120.3	120.0
62.5°	1895.1	1129.6	303.7	175.4	144.2	123.5	116.2	123.5	127.3	126.3	125.9
65°	1460.6	804.6	232.0	152.0	130.1	115.3	109.1	115.8	120.9	122.3	121.9
67.5°	948.0	493.1	178.9	129.6	114.2	105.5	100.0	103.0	104.1	104.1	103.3
70°	466.1	265.4	142.4	109.1	98.1	95.0	91.9	90.3	88.6	87.2	87.2
72.5°	230.1	173.5	117.1	92.3	84.5	83.3	82.6	80.5	79.1	77.4	76.7
75°	170.0	141.2	99.7	77.9	72.8	71.3	72.8	71.1	70.7	69.3	68.7
77.5°	139.7	120.3	85.9	66.7	62.3	59.9	62.0	62.3	62.6	60.6	59.9
80°	113.5	101.7	71.8	55.2	51.3	49.4	50.8	53.5	54.2	51.3	49.9
82.5°	81.8	83.3	57.9	43.1	39.7	38.4	41.1	44.5	45.2	40.8	39.7
85°	68.7	69.3	44.5	30.6	27.3	25.2	29.6	33.0	35.4	31.0	30.0
87.5°	28.7	40.8	25.6	17.2	15.1	13.1	15.8	17.4	21.2	19.6	19.3
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)