

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: P270083

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-AFL-7027-600-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2927.3 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 34
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

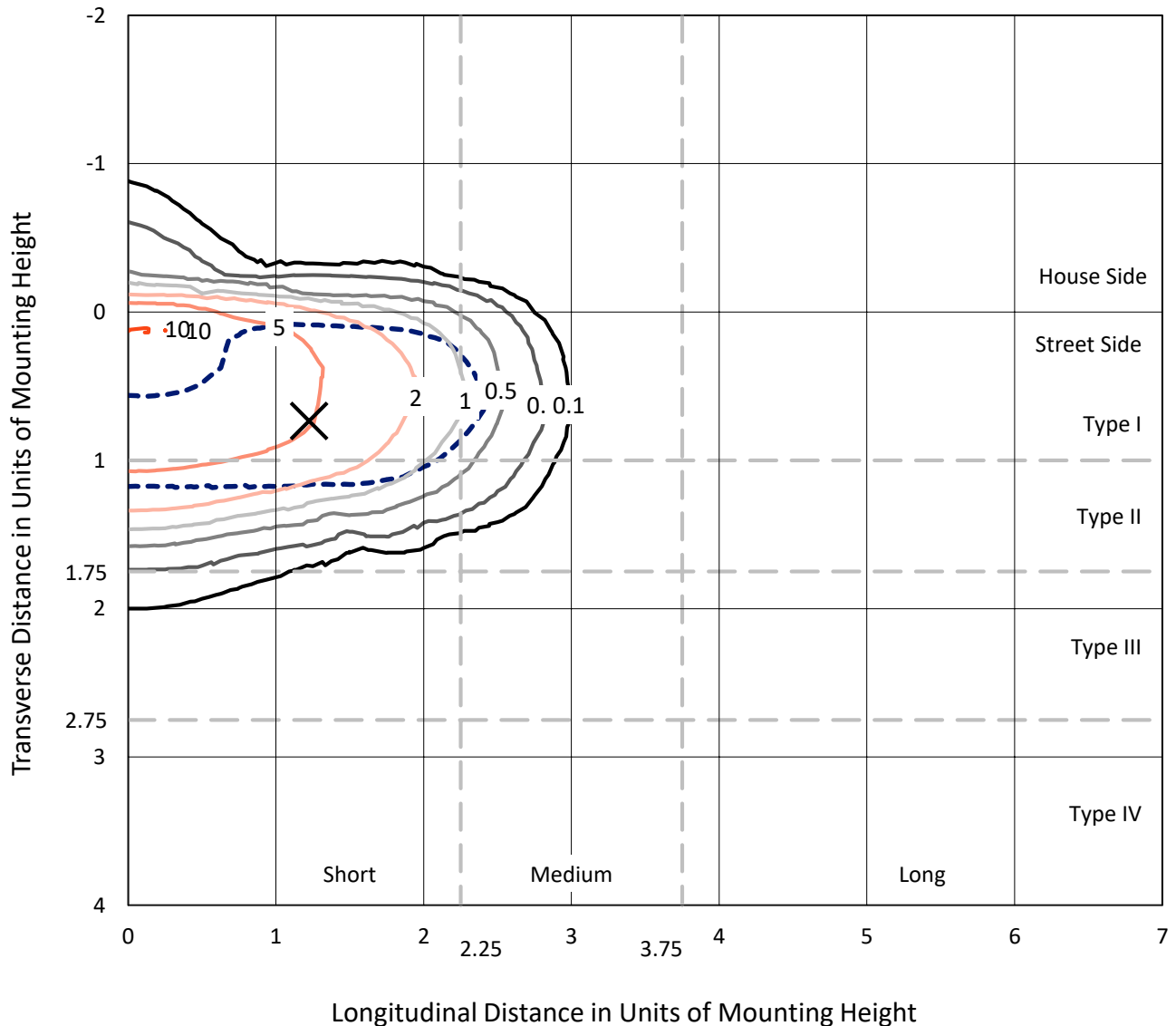


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Iso-Footcandle Lines of Horizontal Illumination

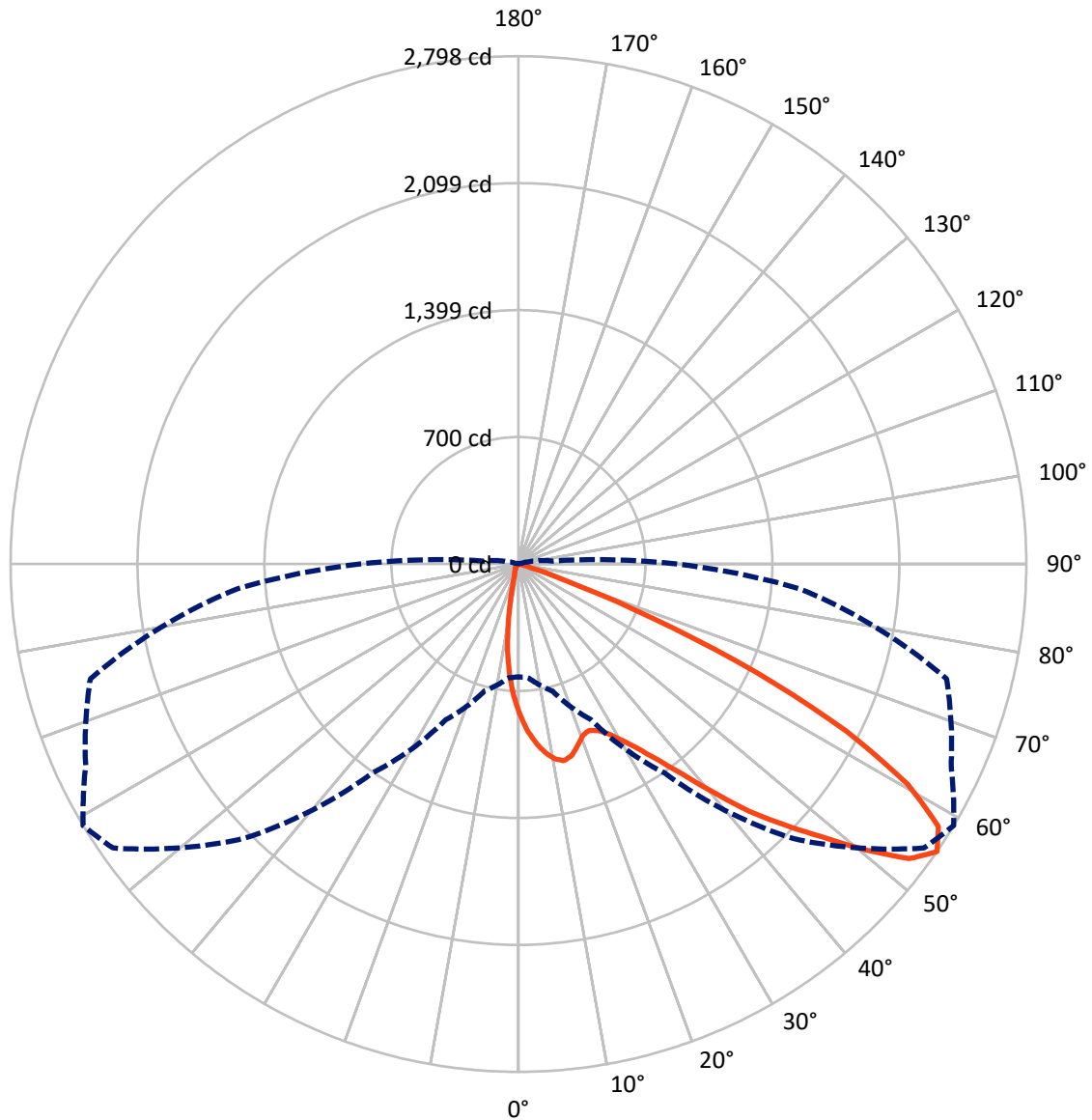
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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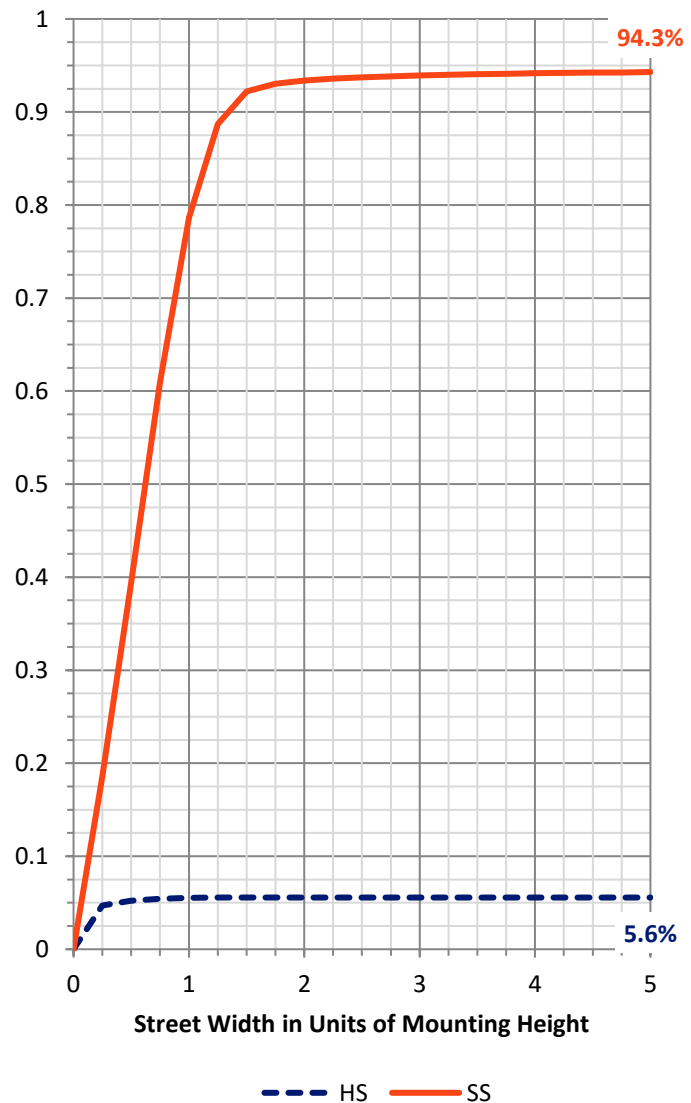
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	163.5	0.0	163.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	2763.8	0.0	2763.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	2927.3	0.0	2927.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	2.4
10°-20°	165.3	5.6
20°-30°	281.2	9.6
30°-40°	483.6	16.5
40°-50°	746.6	25.5
50°-60°	750.6	25.6
60°-70°	384.9	13.1
70°-80°	41.7	1.4
80°-90°	4.4	0.1
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°	2927.3	100.0
0°-180°	2927.3	100.0

Coefficient of Utilization



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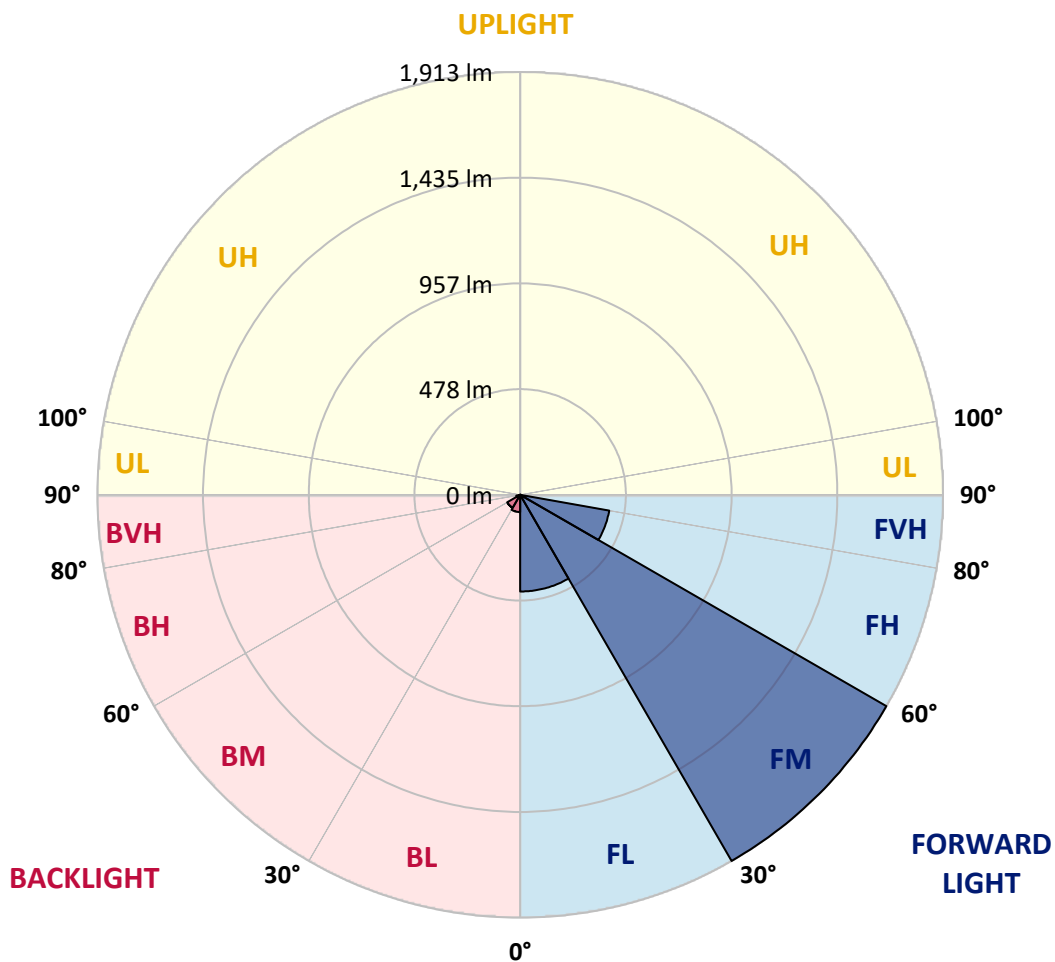
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.4	14.9			
FM	(30°-60°)	1913.0	65.3			
FH	(60°-80°)	409.1	14.0			G0/660
FVH	(80°-90°)	4.3	0.1			G0/10
BL	(0°-30°)	78.0	2.7	B0/110		
BM	(30°-60°)	67.9	2.3	B0/220		
BH	(60°-80°)	17.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1
2.5°	975.0	964.7	961.5	959.5	950.0	938.0	921.8	914.2	898.7	873.6	842.9
5°	1064.3	1062.4	1055.5	1051.6	1041.6	1024.6	998.7	986.2	961.5	919.4	864.3
7.5°	1025.3	1037.2	1046.8	1062.6	1082.6	1082.0	1060.2	1047.2	1019.6	964.0	888.2
10°	874.4	884.2	899.7	935.8	1009.4	1074.4	1099.9	1090.5	1068.4	1004.8	911.1
12.5°	844.9	844.0	846.7	857.2	895.8	988.3	1093.1	1112.0	1107.5	1042.4	932.9
15°	860.7	859.5	859.1	862.7	872.0	911.1	1042.6	1096.7	1131.4	1077.2	951.3
17.5°	904.8	899.6	896.7	893.8	891.0	900.8	981.8	1053.6	1134.9	1107.5	966.8
20°	980.2	971.6	961.4	944.7	929.2	924.4	956.2	1009.4	1122.0	1130.7	976.7
22.5°	1075.0	1064.0	1046.3	1016.2	984.5	966.2	968.8	995.4	1102.8	1155.8	981.4
25°	1181.6	1167.4	1144.0	1102.0	1055.5	1023.0	1006.1	1015.4	1093.9	1185.4	986.8
27.5°	1295.8	1280.1	1249.4	1192.1	1139.5	1095.6	1061.1	1059.9	1108.9	1224.1	995.4
30°	1409.0	1406.6	1366.5	1306.0	1236.2	1182.8	1133.1	1126.7	1150.9	1277.7	1012.5
32.5°	1560.0	1541.9	1492.8	1430.6	1350.2	1285.9	1227.1	1212.3	1215.3	1340.1	1039.0
35°	1750.3	1730.5	1661.3	1575.5	1485.4	1409.8	1344.7	1324.6	1316.9	1442.1	1083.5
37.5°	1873.3	1873.0	1829.7	1742.3	1645.6	1562.2	1491.4	1467.7	1452.4	1565.5	1152.6
40°	1876.6	1884.7	1890.4	1889.6	1820.9	1744.0	1681.1	1651.9	1616.1	1730.2	1241.9
42.5°	1775.9	1796.8	1847.1	1932.4	1973.2	1942.6	1889.6	1860.9	1807.7	1906.7	1350.8
45°	1639.8	1654.3	1742.3	1899.4	2055.8	2139.6	2099.2	2047.8	1977.6	2090.6	1448.3
47.5°	1578.8	1581.4	1638.2	1810.8	2062.0	2300.8	2325.4	2242.0	2132.1	2238.9	1524.8
50°	1396.5	1401.3	1479.6	1657.2	1989.1	2377.1	2552.8	2473.7	2300.6	2353.1	1552.5
52.5°	1052.5	1059.1	1158.7	1404.9	1788.7	2344.6	2715.6	2696.4	2485.1	2408.8	1554.1
55°	621.1	629.6	724.7	945.6	1406.9	2138.0	2727.6	2798.0	2630.7	2441.9	1551.6
57.5°	290.1	296.1	350.5	487.2	875.0	1689.7	2545.5	2728.3	2711.0	2459.3	1568.7
60°	154.1	155.9	169.0	210.9	395.4	1071.5	2190.2	2463.6	2637.8	2483.5	1589.6
62.5°	117.8	118.3	117.6	122.6	166.2	475.6	1655.5	2025.4	2343.0	2465.4	1566.6
65°	102.0	102.9	98.1	96.8	106.6	169.6	983.5	1443.7	1841.0	2220.6	1408.8
67.5°	91.5	92.0	86.1	81.0	82.8	91.7	388.0	790.3	1218.6	1627.7	1021.2
70°	84.4	83.9	77.6	69.6	67.4	62.7	123.3	289.7	582.4	825.5	474.9
72.5°	74.6	74.7	71.7	61.4	56.0	43.9	57.2	84.5	173.7	224.9	111.2
75°	66.2	65.3	61.4	54.9	46.1	28.8	28.4	37.6	53.5	53.2	24.0
77.5°	47.9	47.0	48.2	45.1	35.4	18.6	14.2	18.1	21.8	21.0	6.7
80°	35.0	34.6	31.1	37.5	31.3	12.8	8.8	9.6	11.2	9.4	2.1
82.5°	24.0	23.8	21.9	20.8	17.8	7.8	5.5	6.1	7.3	5.4	1.1
85°	3.8	4.3	15.9	12.7	10.5	3.5	3.8	4.1	4.9	2.9	0.4
87.5°	0.0	0.0	7.5	6.6	2.1	1.3	2.2	2.4	2.4	1.5	0.0
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°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1
2.5°	827.2	809.9	777.9	745.0	714.3	677.9	652.8	634.0	612.2	606.4	619.1
5°	832.8	800.2	731.5	656.7	586.3	508.4	448.9	401.6	359.1	344.4	357.6
7.5°	841.8	793.3	681.2	557.9	435.8	314.0	230.8	176.1	141.1	130.7	136.4
10°	850.8	783.2	622.9	441.2	274.0	152.9	99.4	79.5	72.0	70.5	71.3
12.5°	858.2	769.8	552.0	313.8	146.4	81.9	65.1	61.8	60.8	60.8	61.2
15°	862.7	749.4	467.8	199.5	84.4	61.8	56.9	55.8	55.8	56.0	56.3
17.5°	862.2	723.5	375.7	120.8	63.1	54.8	51.8	50.9	50.8	51.1	51.3
20°	855.8	689.6	283.2	79.6	54.9	49.9	47.0	45.5	45.3	45.6	45.9
22.5°	843.8	647.8	202.7	61.4	49.6	45.3	41.7	40.2	40.2	40.6	40.9
25°	829.1	596.7	138.5	52.0	44.7	40.2	36.7	35.6	35.9	36.7	36.9
27.5°	810.7	539.2	94.1	44.6	38.9	35.2	32.6	31.7	32.6	33.9	34.2
30°	795.0	479.2	67.2	38.5	33.0	30.4	28.8	28.8	30.1	32.3	32.8
32.5°	782.9	421.1	51.8	34.0	28.7	26.4	25.6	26.4	28.4	30.5	31.1
35°	781.3	373.3	43.9	30.4	25.6	23.4	23.0	24.5	26.4	28.2	28.5
37.5°	793.3	329.1	39.5	27.5	22.7	20.8	20.4	22.3	24.3	26.2	26.9
40°	815.8	294.4	36.5	24.7	20.6	18.3	17.7	19.0	21.6	24.3	25.1
42.5°	845.3	265.7	33.0	21.9	18.3	15.3	14.4	15.9	18.6	21.6	22.5
45°	873.2	241.0	29.2	18.8	15.4	11.8	11.4	13.5	14.8	17.8	18.5
47.5°	888.6	219.2	26.0	15.4	11.9	9.4	9.4	10.1	11.4	14.8	15.5
50°	883.5	201.8	22.5	11.4	8.3	7.3	7.3	7.0	9.2	11.9	12.5
52.5°	873.1	191.7	19.4	8.8	5.7	5.2	4.7	5.2	6.4	7.6	7.8
55°	871.5	190.1	16.2	7.0	4.0	3.5	2.6	2.6	2.6	2.4	2.1
57.5°	883.6	192.8	13.6	5.7	2.9	2.2	1.3	0.0	0.0	0.0	0.0
60°	896.1	195.7	11.8	4.0	2.1	1.3	0.2	0.0	0.0	0.0	0.0
62.5°	875.3	189.2	9.9	2.4	1.5	0.4	0.0	0.0	0.0	0.0	0.0
65°	768.9	161.1	7.8	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	547.0	107.8	5.2	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	249.6	45.1	3.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	53.4	14.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.9	10.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.5	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.1	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)