

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: P450686

Luminaire Tested: **GALN-SA1C-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5308 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

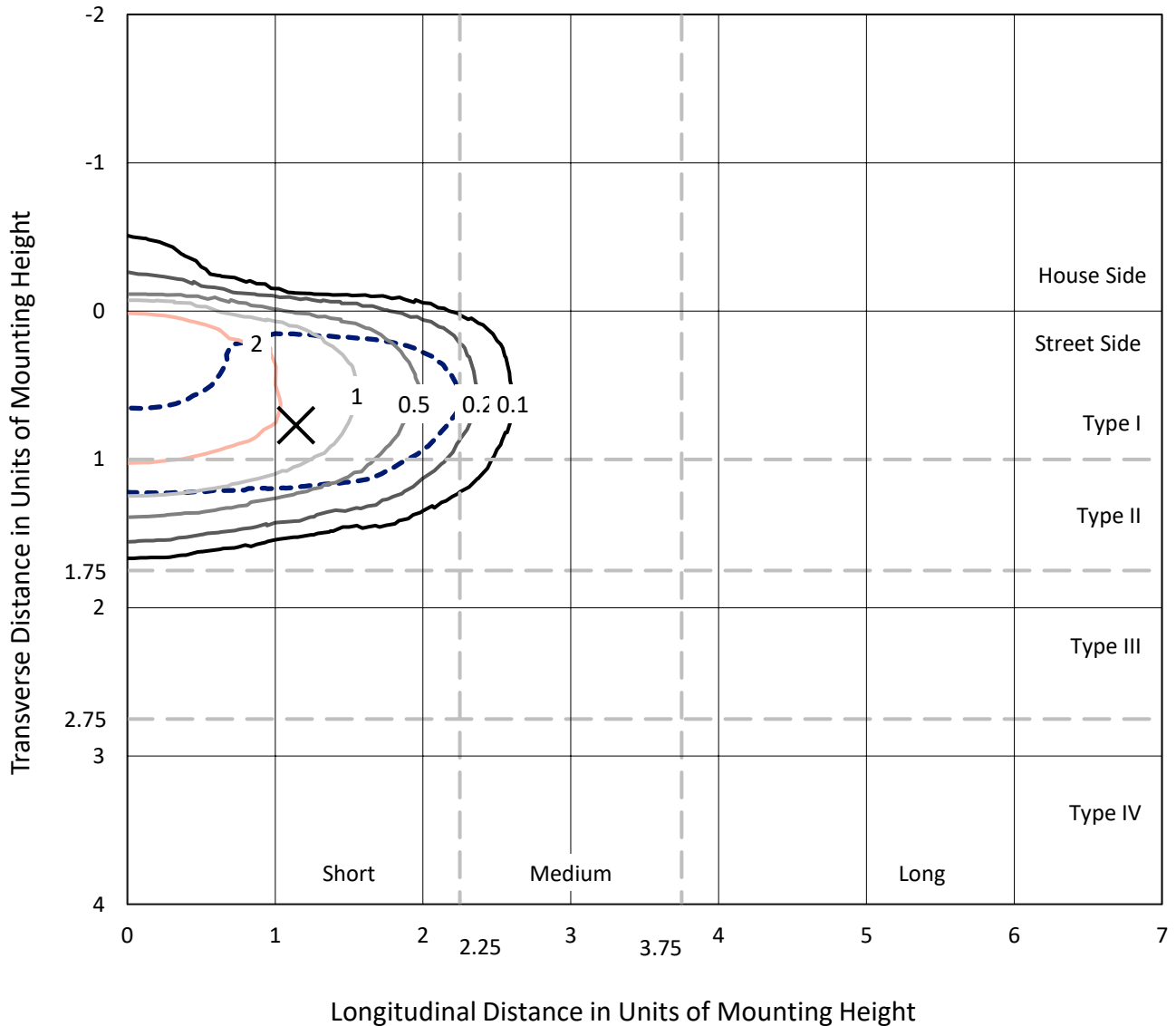
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450686
 CATALOG NUMBER: GALN-SA1C-730-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

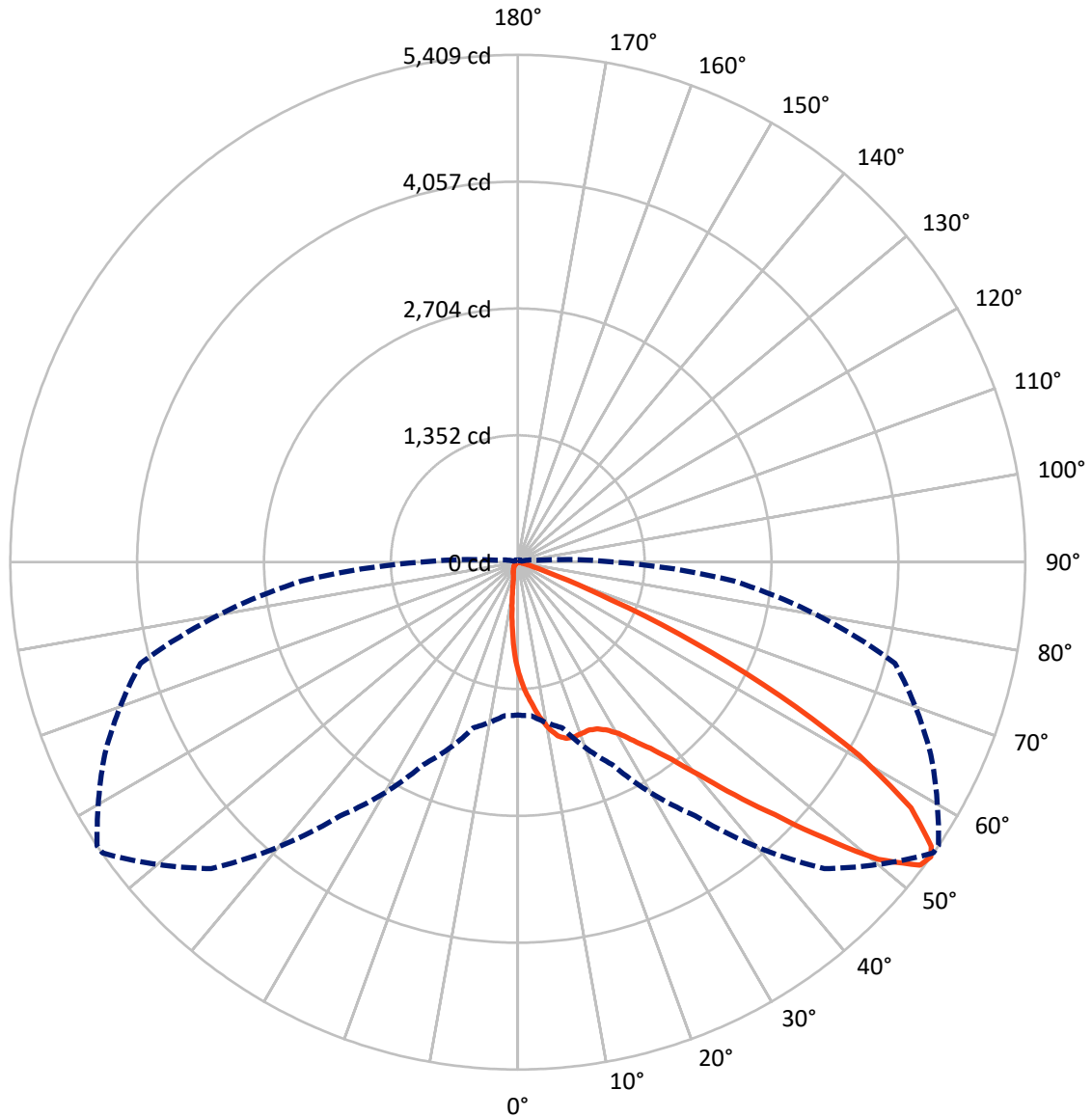
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

REPORT NUMBER: P450686
CATALOG NUMBER: GALN-SA1C-730-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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CATALOG NUMBER: GALN-SA1C-730-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	251.0	0.0	251.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	5057.0	0.0	5057.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	5308.0	0.0	5308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	2.0
10°-20°	281.7	5.3
20°-30°	487.9	9.2
30°-40°	842.2	15.9
40°-50°	1433.4	27.0
50°-60°	1418.6	26.7
60°-70°	647.5	12.2
70°-80°	83.1	1.6
80°-90°	9.4	0.2
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°	5308.0	100.0
0°-180°	5308.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450686

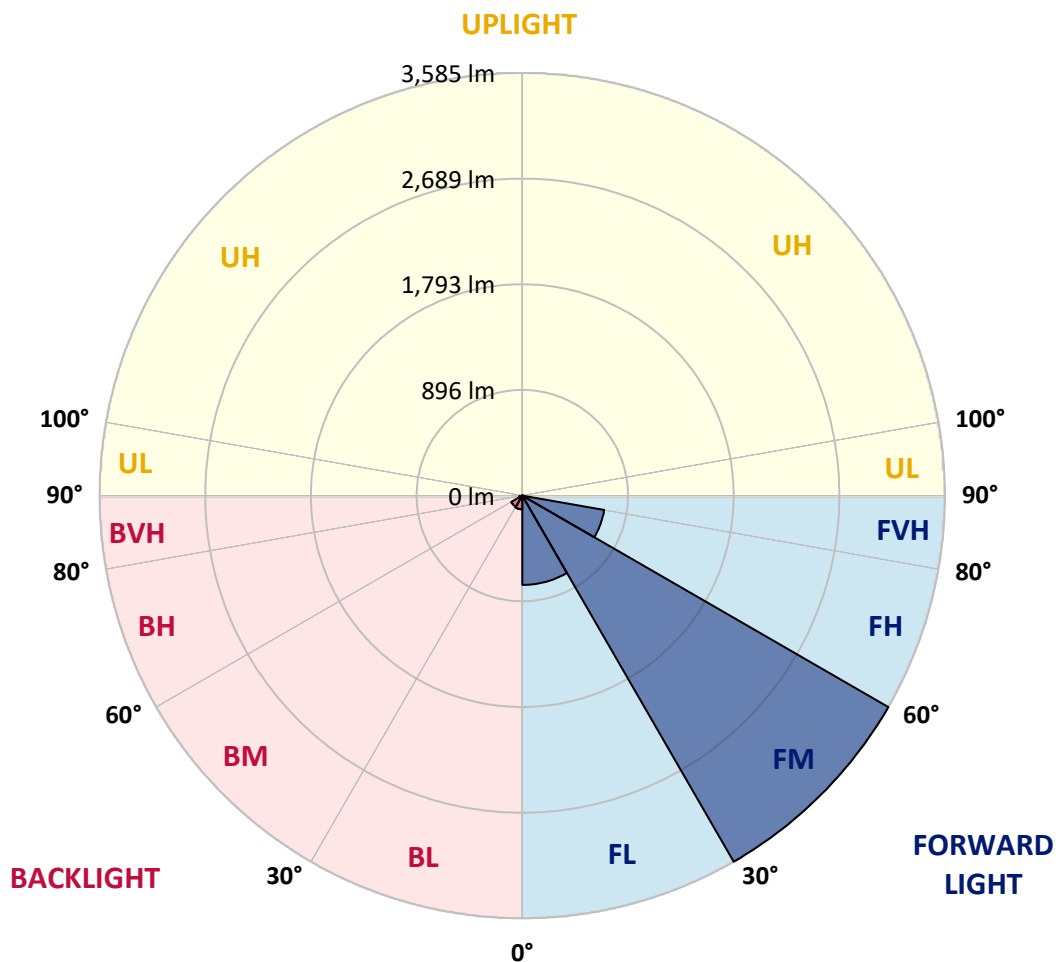
CATALOG NUMBER: GALN-SA1C-730-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.7	14.3			
FM (30°-60°)	3585.4	67.5			
FH (60°-80°)	705.5	13.3			G1/1800
FVH (80°-90°)	8.4	0.2			G0/10
BL (0°-30°)	116.1	2.2	B1/500		
BM (30°-60°)	108.8	2.0	B0/220		
BH (60°-80°)	25.1	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P450686

CATALOG NUMBER: GALN-SA1C-730-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3
2.5°	1498.7	1488.3	1474.0	1462.9	1436.8	1399.2	1359.4	1359.4	1321.1	1267.7	1213.3
5°	1728.6	1721.8	1707.9	1679.2	1649.9	1597.2	1517.3	1503.4	1435.0	1338.3	1236.6
7.5°	1822.1	1825.3	1826.0	1818.5	1804.6	1752.6	1673.5	1663.8	1554.6	1425.0	1267.0
10°	1732.6	1748.3	1763.7	1794.9	1838.9	1851.5	1806.7	1796.7	1689.2	1512.7	1300.0
12.5°	1599.4	1608.0	1616.5	1665.6	1754.1	1855.4	1902.3	1902.0	1811.0	1600.1	1341.9
15°	1537.4	1544.9	1545.6	1567.5	1644.1	1791.7	1943.2	1948.5	1929.9	1707.9	1387.0
17.5°	1550.3	1556.4	1551.4	1556.7	1596.9	1721.5	1938.5	1956.4	2026.2	1811.4	1427.8
20°	1634.5	1646.3	1626.9	1611.9	1624.1	1702.9	1922.7	1947.8	2094.3	1912.4	1465.1
22.5°	1785.6	1792.0	1767.7	1726.5	1705.0	1741.9	1918.4	1943.2	2152.3	1995.1	1486.6
25°	1953.5	1951.4	1924.5	1878.3	1833.2	1820.7	1946.7	1968.9	2200.3	2069.6	1493.0
27.5°	2121.5	2127.9	2082.8	2025.5	1971.4	1938.9	2010.1	2026.6	2254.4	2154.4	1500.9
30°	2316.7	2306.3	2261.9	2196.3	2134.4	2088.9	2112.2	2116.8	2328.8	2266.9	1521.6
32.5°	2570.6	2541.9	2492.1	2377.6	2333.1	2256.1	2261.9	2267.6	2419.5	2378.3	1546.7
35°	2915.1	2913.7	2816.2	2661.9	2553.7	2458.1	2433.1	2437.7	2556.6	2543.7	1602.2
37.5°	3329.8	3335.5	3224.5	3069.1	2870.0	2718.1	2666.6	2667.3	2765.0	2772.2	1686.7
40°	3667.5	3682.5	3616.3	3511.4	3314.7	3077.3	2990.6	2982.8	3058.0	3049.0	1807.4
42.5°	3812.9	3826.9	3851.6	3888.1	3779.9	3584.1	3379.6	3390.3	3413.2	3350.6	1942.8
45°	3741.6	3763.8	3860.9	4086.5	4188.2	4122.3	3878.4	3840.8	3743.8	3678.2	2078.9
47.5°	3444.7	3498.8	3661.0	4036.7	4392.7	4615.4	4441.4	4391.6	4074.7	3917.5	2165.5
50°	2956.6	2959.9	3185.8	3666.1	4286.7	4926.6	5016.2	4978.9	4383.0	4051.8	2209.2
52.5°	2143.3	2213.9	2420.9	2977.0	3827.6	4879.4	5382.5	5367.1	4701.0	4120.5	2272.3
54°	1629.4	1643.0	1827.1	2379.0	3300.1	4619.7	5405.1	5408.7	4859.0	4162.1	2309.5
55°	1335.8	1303.2	1496.6	2026.6	2940.2	4390.2	5331.3	5348.5	4929.9	4183.5	2337.1
57.5°	633.2	633.5	781.4	1069.0	1841.4	3408.9	4880.4	4941.3	4937.7	4220.4	2422.0
60°	320.5	322.7	355.3	493.5	909.6	2266.2	4035.3	4180.3	4557.8	4225.8	2449.9
62.5°	224.2	221.7	216.3	237.4	382.8	1151.7	3004.3	3130.3	3872.3	4021.3	2361.1
65°	192.0	186.6	171.5	168.3	193.4	458.8	1871.2	2076.7	2956.6	3482.0	2108.2
67.5°	164.0	161.9	148.3	140.0	136.8	199.8	965.5	1073.6	2020.9	2502.9	1596.9
70°	139.3	138.2	130.0	119.6	110.7	119.6	358.1	443.7	1126.3	1347.6	753.5
72.5°	113.2	114.2	115.7	102.4	93.1	84.9	152.9	178.0	471.3	481.7	263.6
75°	99.2	98.1	98.1	89.2	77.7	63.0	84.2	90.6	144.3	133.9	61.2
77.5°	69.8	67.3	78.8	73.4	64.8	44.8	48.0	50.9	59.8	51.2	28.6
80°	48.3	48.3	50.5	65.9	58.4	32.6	29.4	31.5	35.5	30.4	16.5
82.5°	27.2	27.9	32.9	35.1	34.0	21.8	19.3	19.7	23.6	20.8	10.4
85°	3.2	5.4	19.0	18.6	14.0	9.7	10.7	11.1	14.7	12.9	6.1
87.5°	0.4	0.7	3.9	5.0	3.6	3.9	3.9	3.9	5.0	5.7	4.3
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°	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3	1179.3
2.5°	1183.9	1156.7	1091.9	1016.7	968.7	890.6	824.7	777.1	765.3	742.4	749.2
5°	1182.5	1125.9	993.8	854.1	705.1	594.1	511.4	446.2	417.6	398.6	385.3
7.5°	1183.2	1094.8	882.8	660.4	482.4	373.5	296.9	257.1	230.6	219.5	221.0
10°	1185.4	1059.7	753.8	489.2	325.5	241.4	194.5	175.5	166.5	165.1	164.7
12.5°	1190.4	1021.4	630.6	363.1	227.8	175.5	157.6	151.1	148.3	148.3	147.2
15°	1195.8	979.1	528.2	270.0	175.5	150.8	142.5	139.3	137.5	137.5	137.2
17.5°	1195.8	930.4	432.6	209.5	151.1	138.6	132.1	127.8	126.4	126.4	126.1
20°	1188.2	873.8	347.7	168.7	137.2	127.1	120.7	116.0	114.2	113.5	113.2
22.5°	1162.1	798.2	276.8	145.0	125.7	117.1	108.9	103.5	102.1	101.3	101.7
25°	1115.5	713.0	219.2	127.5	115.3	104.9	97.8	93.8	92.4	92.4	92.8
27.5°	1067.6	623.8	173.7	114.2	102.8	93.5	87.7	85.2	84.9	85.9	86.3
30°	1023.1	534.3	140.7	103.5	91.7	83.8	79.9	79.1	79.1	79.5	79.9
32.5°	973.7	455.9	117.8	94.2	82.7	75.9	73.8	73.8	74.5	74.5	75.2
35°	942.6	388.6	103.5	85.2	75.9	70.2	68.8	69.1	70.2	71.6	72.3
37.5°	925.7	334.8	94.2	78.1	69.5	65.5	64.1	64.8	67.3	69.8	70.2
40°	927.2	294.4	86.7	72.0	64.5	60.2	59.1	61.2	63.7	66.3	66.6
42.5°	942.9	264.3	79.5	64.8	60.2	54.1	53.7	55.9	56.9	59.4	59.8
45°	961.5	242.4	72.0	57.3	52.3	46.9	47.3	49.1	50.5	54.4	55.2
47.5°	967.3	227.4	63.4	48.7	43.0	41.2	41.5	42.6	45.5	49.1	49.4
50°	973.7	218.1	55.2	41.2	36.5	36.2	36.5	37.2	39.0	40.5	40.1
52.5°	1001.3	217.7	48.3	35.8	31.2	31.9	32.2	31.9	30.4	28.3	27.6
54°	1027.1	218.8	45.1	33.3	28.6	29.7	29.4	27.6	24.0	21.8	20.8
55°	1047.9	219.9	43.3	31.5	27.2	27.6	27.9	24.4	19.7	17.5	16.8
57.5°	1088.7	217.4	39.0	27.6	24.0	22.6	22.2	16.1	10.7	9.3	8.6
60°	1068.3	196.2	35.5	23.6	20.4	18.3	15.0	9.0	5.4	3.9	3.9
62.5°	988.0	166.5	31.5	19.3	16.8	14.0	7.9	5.0	2.5	1.4	1.1
65°	883.8	140.0	28.3	15.4	13.3	9.0	4.3	3.2	1.1	0.0	0.0
67.5°	657.1	103.9	24.0	12.2	10.0	5.7	2.9	1.8	0.4	0.0	0.0
70°	304.4	63.4	20.4	9.3	7.2	4.3	2.1	1.1	0.0	0.0	0.0
72.5°	87.4	39.8	16.8	6.8	5.0	3.6	1.8	0.7	0.4	0.0	0.0
75°	30.4	31.9	12.5	5.0	3.9	2.5	1.4	0.7	0.4	0.0	0.0
77.5°	18.3	25.8	7.9	4.3	3.2	2.1	1.4	0.7	0.4	0.4	0.0
80°	10.4	17.2	5.0	3.6	2.9	1.8	1.1	0.7	0.4	0.4	0.0
82.5°	5.7	8.2	3.9	3.2	2.5	1.8	1.1	0.7	0.4	0.4	0.4
85°	4.7	4.3	3.2	2.9	2.1	1.4	1.1	0.4	0.0	0.0	0.0
87.5°	3.6	2.9	2.9	2.9	2.1	1.4	1.1	0.4	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)