

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: P458710

Luminaire Tested: **GALN-SA2C-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10311 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

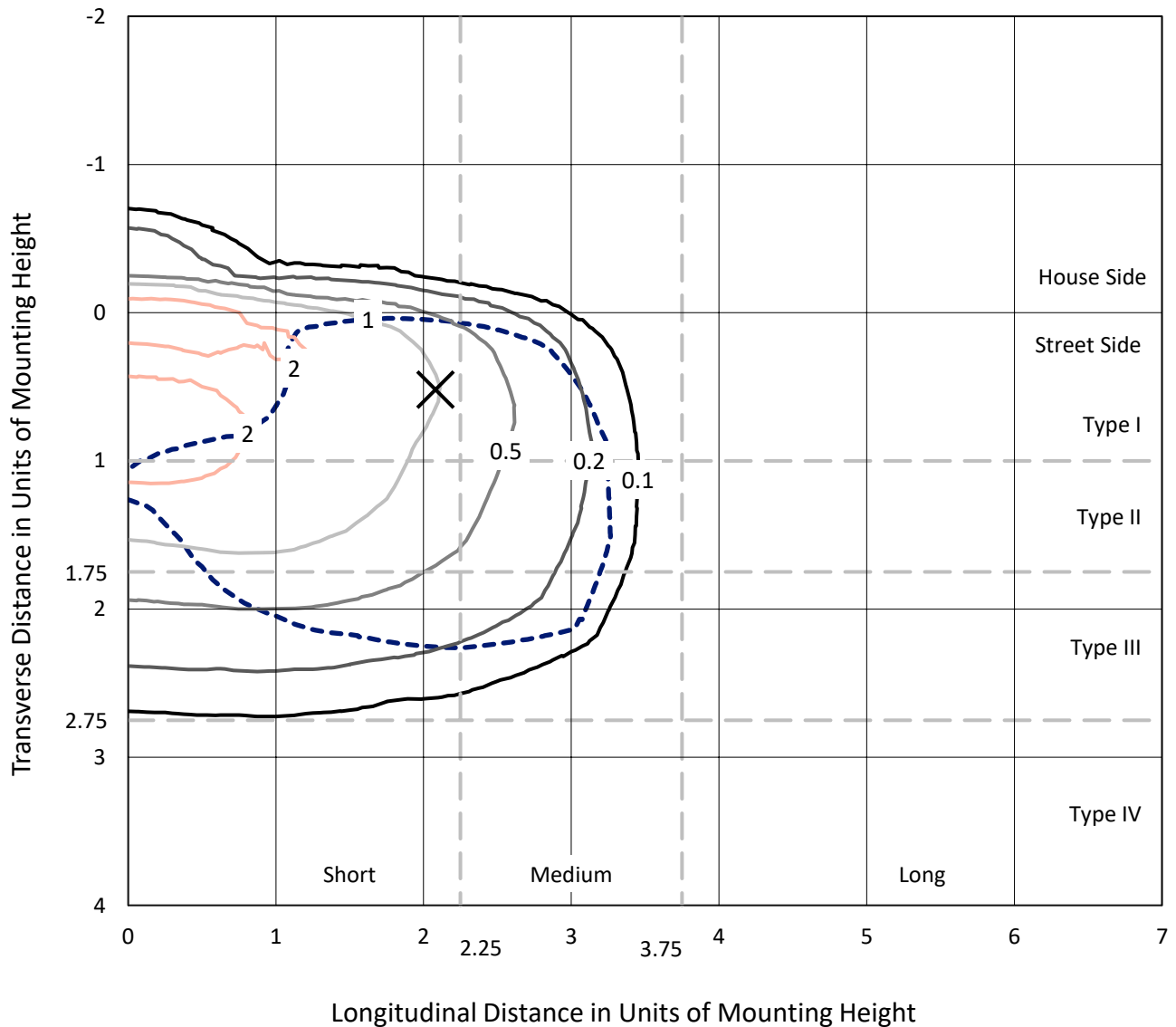
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458710
 CATALOG NUMBER: GALN-SA2C-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

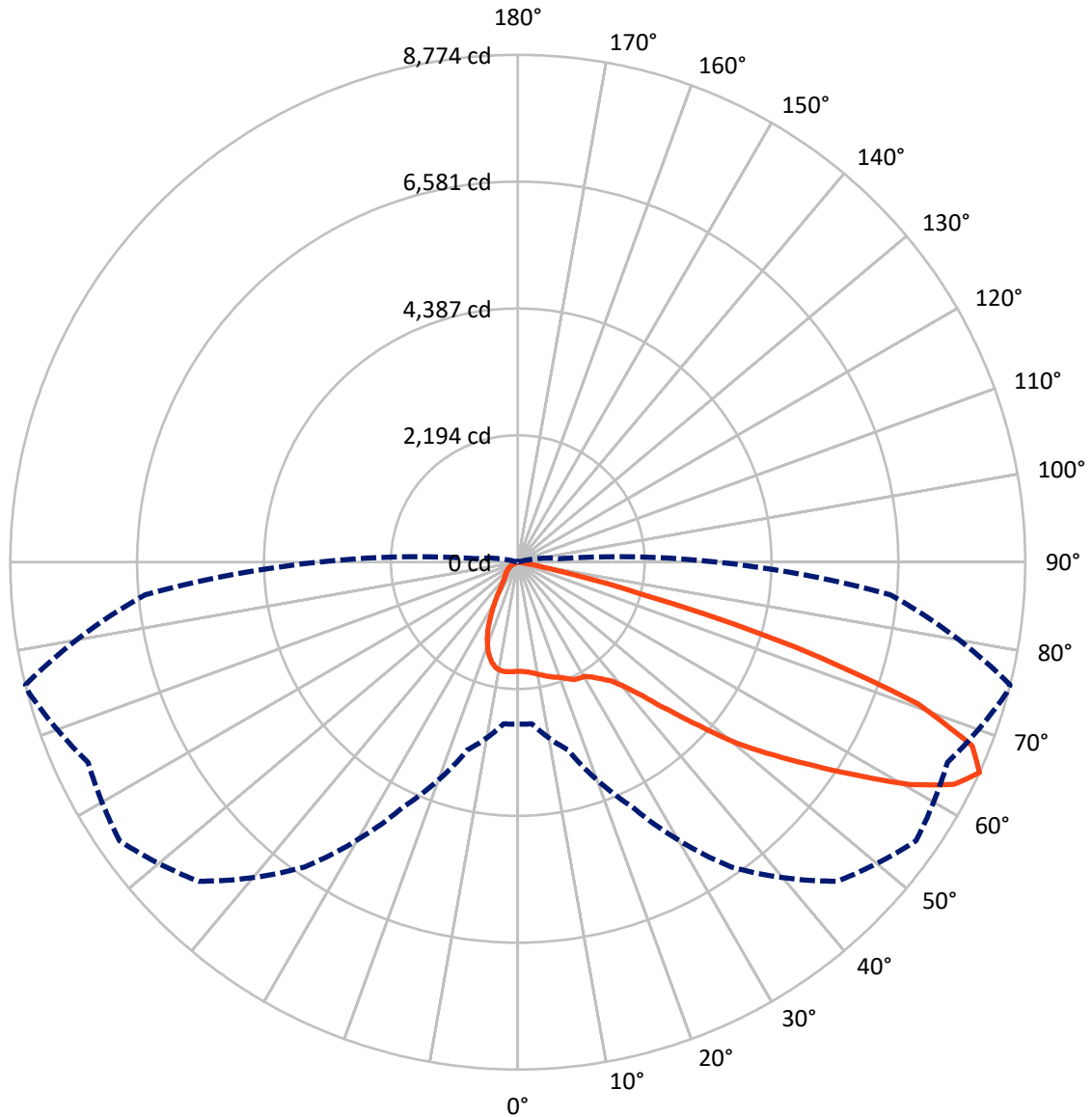
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

REPORT NUMBER: P458710
CATALOG NUMBER: GALN-SA2C-735-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P458710

CATALOG NUMBER: GALN-SA2C-735-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.6	0.0	744.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9566.3	0.0	9566.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	10311.0	0.0	10311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.5
10°-20°	346.0	3.4
20°-30°	557.5	5.4
30°-40°	969.3	9.4
40°-50°	1601.8	15.5
50°-60°	2474.4	24.0
60°-70°	3021.6	29.3
70°-80°	1146.8	11.1
80°-90°	38.3	0.4
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°	10311.0	100.0
0°-180°	10311.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458710

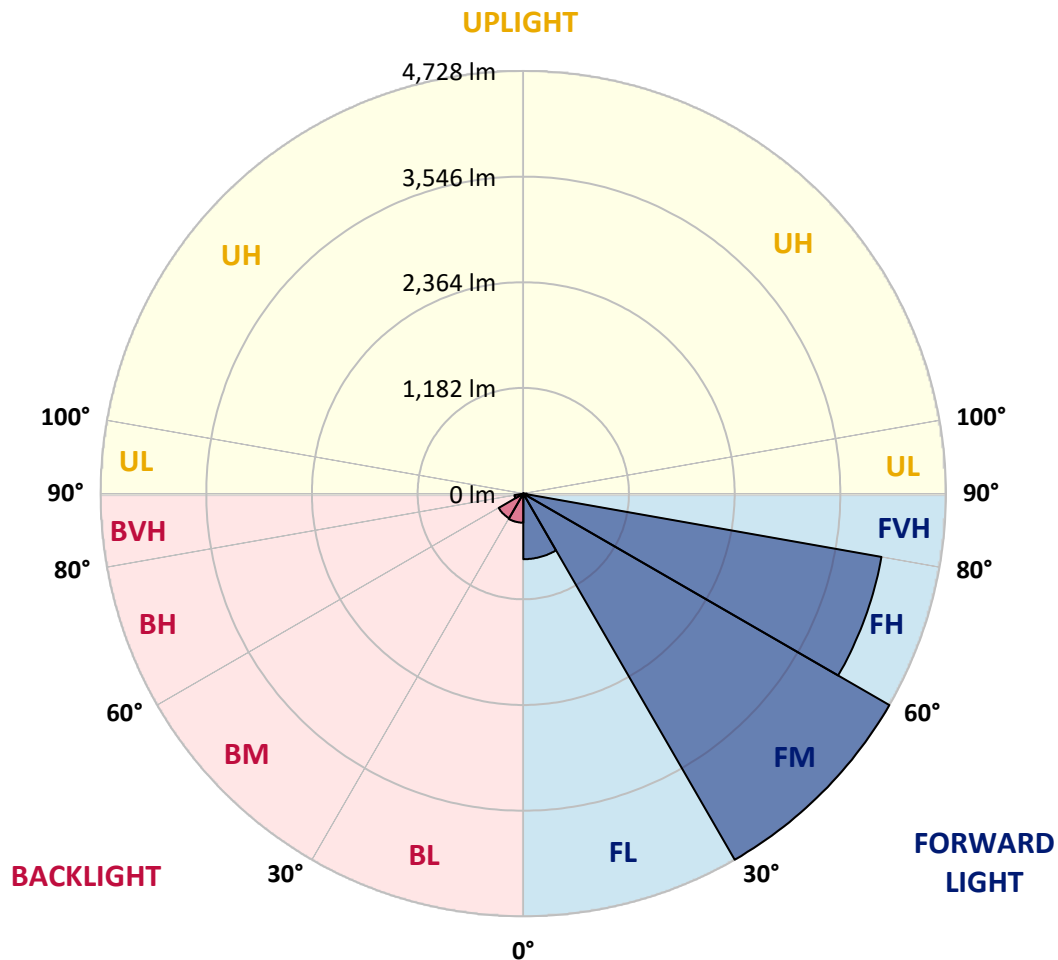
CATALOG NUMBER: GALN-SA2C-735-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	733.5	7.1			
FM (30°-60°)	4727.7	45.9			
FH (60°-80°)	4067.3	39.4			G2/5000
FVH (80°-90°)	37.7	0.4			G1/100
BL (0°-30°)	325.3	3.2	B1/500		
BM (30°-60°)	317.8	3.1	B1/1000		
BH (60°-80°)	101.0	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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-G2

Type III Short





REPORT NUMBER: P458710

CATALOG NUMBER: GALN-SA2C-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2
2.5°	1802.5	1803.2	1807.6	1818.5	1835.3	1849.1	1860.7	1879.7	1892.8	1894.2	1898.6
5°	1678.0	1669.3	1678.0	1706.4	1731.9	1770.5	1817.8	1865.1	1907.3	1910.2	1930.6
7.5°	1538.2	1545.5	1559.3	1588.5	1636.5	1695.5	1763.9	1848.4	1928.4	1935.7	1975.8
10°	1396.3	1412.3	1434.9	1479.3	1546.2	1622.7	1715.9	1836.7	1961.9	1972.1	2041.3
12.5°	1265.2	1272.5	1300.2	1359.9	1442.9	1550.6	1679.5	1830.2	1999.0	2011.4	2111.2
15°	1164.8	1174.2	1198.3	1252.1	1344.6	1482.9	1649.6	1828.0	2035.4	2052.9	2181.0
17.5°	1145.8	1151.7	1161.9	1198.3	1279.1	1429.0	1622.7	1827.2	2070.4	2091.5	2245.8
20°	1223.7	1218.6	1208.5	1204.8	1249.2	1387.5	1603.0	1833.1	2103.9	2127.9	2314.3
22.5°	1418.8	1425.4	1365.7	1295.1	1280.5	1381.0	1600.1	1860.7	2157.0	2185.4	2390.7
25°	1833.1	1782.8	1689.7	1520.8	1393.4	1421.0	1632.9	1926.3	2218.9	2250.2	2459.9
27.5°	2291.0	2275.7	2130.8	1852.7	1615.4	1505.5	1691.1	1976.5	2239.3	2271.3	2499.2
30°	2740.9	2759.1	2593.1	2285.9	1937.9	1662.0	1745.7	1995.4	2257.5	2291.0	2549.4
32.5°	3158.0	3179.8	3034.2	2729.9	2317.9	1932.8	1839.6	2068.9	2333.9	2368.1	2633.1
35°	3486.3	3489.2	3379.3	3136.9	2732.9	2261.9	2042.7	2197.8	2437.3	2477.3	2721.9
37.5°	3787.7	3783.3	3654.5	3445.6	3078.7	2588.7	2298.3	2346.3	2555.2	2596.7	2850.1
40°	4011.2	4014.1	3972.6	3776.1	3401.1	2890.8	2500.6	2485.3	2753.2	2818.0	3036.4
42.5°	4160.4	4187.4	4207.8	4108.0	3806.6	3262.8	2811.5	2783.1	3096.9	3150.7	3300.0
45°	4281.3	4329.3	4431.2	4426.2	4196.1	3719.3	3238.1	3179.8	3583.9	3641.4	3635.6
47.5°	4369.4	4418.1	4587.0	4689.0	4562.3	4161.9	3774.6	3724.4	4165.5	4228.1	4006.1
50°	4414.5	4472.7	4688.2	4885.5	4848.4	4588.5	4386.1	4389.0	4868.0	4928.5	4435.6
52.5°	4308.9	4384.7	4742.1	5097.4	5169.4	4996.9	4959.0	5055.1	5493.4	5545.1	4823.6
55°	3971.9	4067.3	4668.6	5277.9	5541.4	5478.8	5609.9	5756.2	6177.0	6210.4	5221.8
57.5°	3758.6	3859.8	4451.6	5431.5	5988.4	6084.5	6292.0	6399.0	6882.4	6967.6	5679.0
60°	3578.8	3658.1	4273.3	5464.3	6442.7	6825.6	7027.2	7137.9	7753.0	7808.4	6182.1
62.5°	3279.6	3370.6	3971.9	5235.7	6671.3	7418.9	7836.8	7787.3	8426.4	8465.0	6490.7
65°	2798.4	2806.4	3360.4	4661.3	6435.4	7804.0	8405.3	8197.8	8748.2	8774.4	6466.7
67.5°	2088.6	2165.8	2585.1	3664.0	5435.9	7475.0	8589.5	8208.8	8545.1	8472.3	5953.5
70°	1345.3	1404.3	1752.3	2540.7	3919.5	6238.1	7978.7	7646.0	7499.7	7338.1	4873.1
72.5°	621.0	696.7	1041.0	1451.6	2324.5	4443.6	6476.9	6211.9	5398.0	4999.1	3097.6
75°	270.8	289.7	514.0	765.8	1089.8	2349.9	4270.4	3856.1	2438.0	2226.9	1239.8
77.5°	165.3	177.6	269.4	410.6	428.1	895.4	2300.4	1682.4	753.5	664.7	336.3
80°	112.1	125.9	195.8	214.8	146.3	249.7	863.4	449.2	152.1	145.6	72.1
82.5°	54.6	69.2	144.9	120.1	63.3	80.1	251.2	96.1	44.4	41.5	25.5
85°	8.0	13.8	81.5	78.6	28.4	18.9	44.4	24.0	15.3	14.6	11.6
87.5°	0.0	0.0	27.7	12.4	2.9	2.9	5.1	5.1	5.8	5.1	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458710

CATALOG NUMBER: GALN-SA2C-735-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2	1886.2
2.5°	1900.8	1904.4	1890.6	1870.9	1849.8	1828.7	1798.9	1771.9	1755.9	1765.4	1742.1
5°	1935.0	1932.1	1895.7	1836.0	1756.6	1661.3	1566.6	1485.8	1459.6	1420.3	1415.9
7.5°	1982.3	1974.3	1897.1	1760.3	1581.2	1402.1	1227.4	1111.6	1045.4	989.3	990.8
10°	2048.6	2025.3	1880.4	1627.0	1332.2	1062.1	839.4	686.5	620.2	599.1	582.4
12.5°	2117.0	2071.8	1833.8	1447.2	1037.4	725.8	510.3	417.1	376.4	363.3	361.8
15°	2178.1	2106.8	1752.3	1231.0	754.2	463.7	348.0	317.4	312.3	313.0	312.3
17.5°	2238.6	2134.5	1639.4	1001.7	512.5	332.7	299.2	291.9	294.1	297.0	296.3
20°	2288.8	2140.3	1495.3	764.4	362.5	291.9	281.0	279.5	281.7	283.9	283.9
22.5°	2343.4	2144.6	1324.2	529.2	296.3	271.5	265.7	265.7	268.6	271.5	272.3
25°	2384.2	2120.6	1119.6	380.0	261.3	251.9	249.0	249.7	252.6	254.1	253.3
27.5°	2390.7	2052.9	902.7	291.2	237.3	227.9	224.9	227.9	224.2	226.4	224.9
30°	2396.5	1967.0	682.9	245.3	215.5	200.9	196.6	192.2	189.3	185.6	184.9
32.5°	2414.7	1865.8	498.7	220.6	195.1	179.1	168.9	156.5	147.1	144.1	143.4
35°	2422.7	1744.3	366.2	200.9	176.9	159.4	141.2	123.8	109.9	104.8	108.5
37.5°	2453.3	1626.3	283.9	186.4	160.9	139.0	115.7	93.9	80.8	77.9	79.4
40°	2515.9	1498.2	238.1	174.0	147.1	120.1	91.7	70.6	61.9	59.0	58.2
42.5°	2616.4	1370.8	211.8	162.3	133.2	101.2	72.1	55.3	48.0	45.9	45.9
45°	2738.7	1248.5	193.6	150.0	118.7	81.5	56.8	44.4	40.0	38.6	38.6
47.5°	2899.6	1141.5	178.4	137.6	102.6	64.8	45.9	38.6	35.7	36.4	37.1
50°	3062.6	1062.1	161.6	123.8	84.4	53.1	39.3	34.2	33.5	34.2	34.2
52.5°	3185.7	1015.5	139.0	104.8	66.2	44.4	34.9	32.0	31.3	29.8	29.8
55°	3351.6	1005.3	110.7	85.2	52.4	37.1	31.3	29.1	26.9	25.5	24.8
57.5°	3564.9	1017.0	85.2	66.2	40.8	30.6	27.7	24.0	21.1	18.2	18.2
60°	3697.4	990.8	66.2	51.0	29.8	24.8	21.1	17.5	13.8	11.6	10.9
62.5°	3655.2	880.1	52.4	37.9	21.1	18.2	13.8	11.6	8.0	5.8	5.1
65°	3437.5	710.5	42.2	26.2	15.3	10.9	7.3	7.3	3.6	0.7	0.0
67.5°	3008.8	526.3	33.5	17.5	8.7	5.1	3.6	2.2	0.0	0.0	0.0
70°	2448.9	380.0	26.2	10.9	5.1	3.6	1.5	0.7	0.0	0.0	0.0
72.5°	1555.0	217.7	20.4	6.6	3.6	1.5	0.0	0.0	0.0	0.0	0.0
75°	601.3	85.2	13.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	170.3	40.0	8.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.4	17.5	4.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.1	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	0.7	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)