

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: STREETWORKS

Report Number: P268257

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268257  
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: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-AFL-7027-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES 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: 6997.9 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 85  
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: 28.75 FT

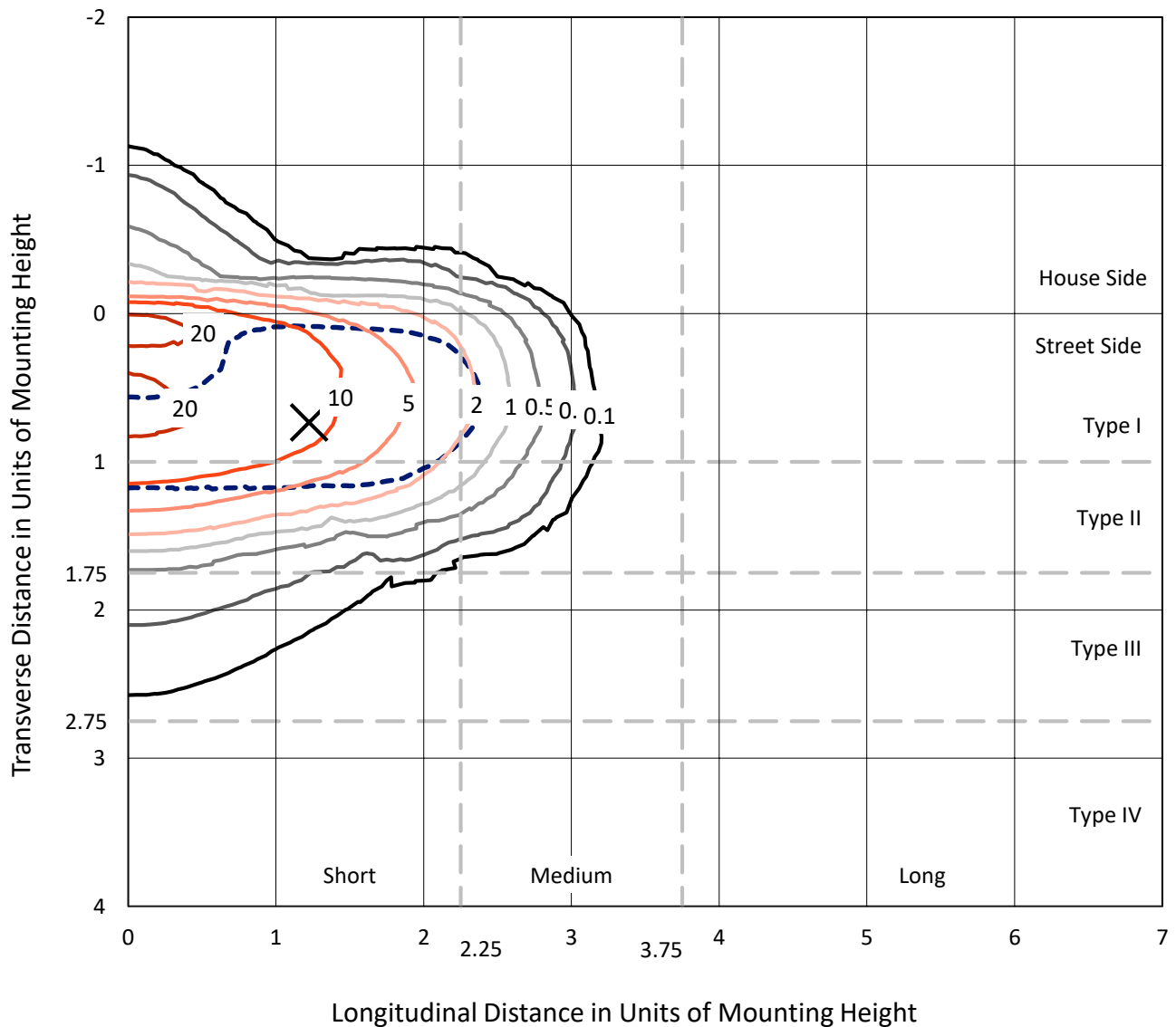


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

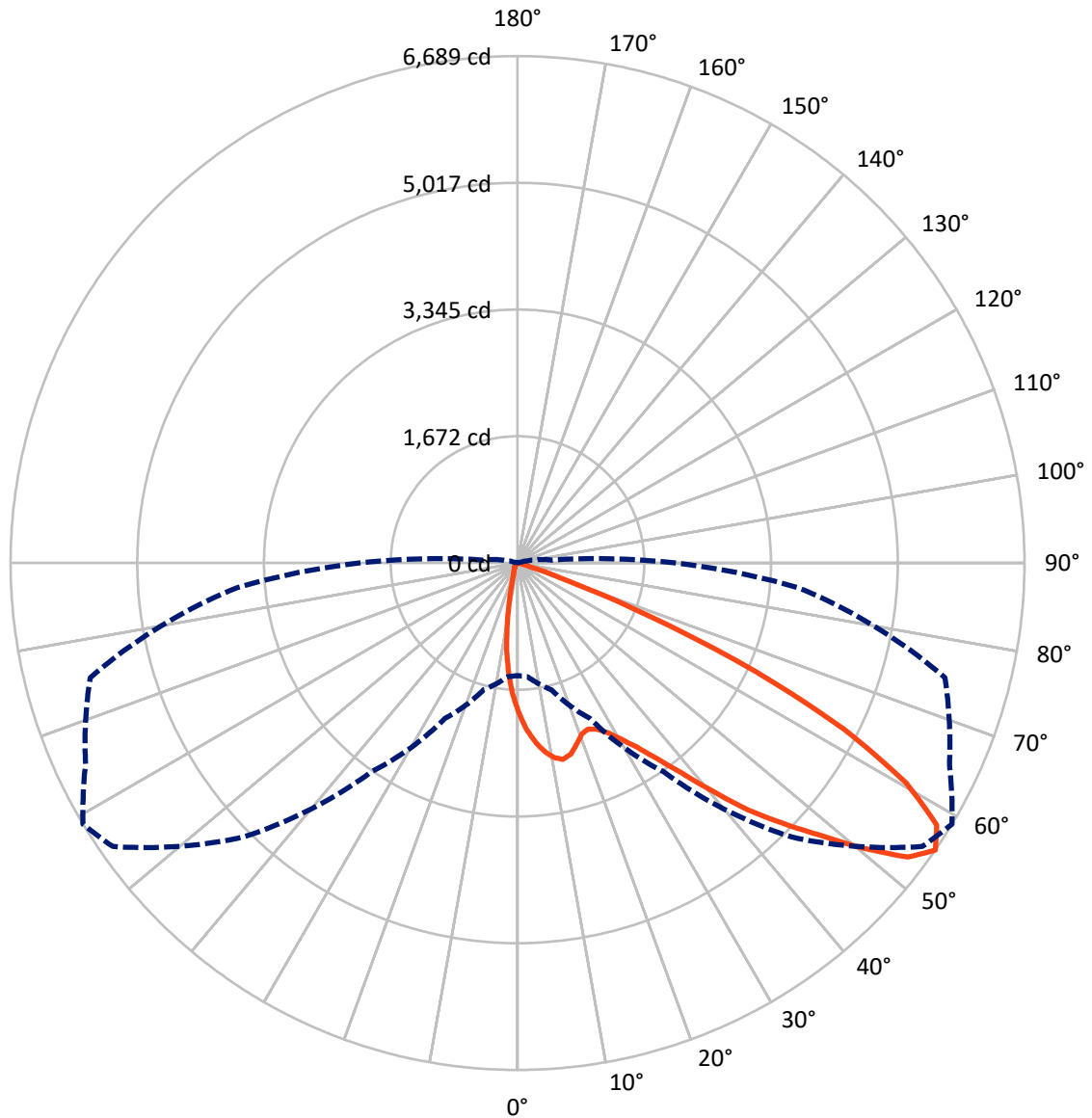


Based on 10 foot mounting height. Maximum calculated value = 24.5 fc  
 Type II - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	390.9	0.0	390.9
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	6607.1	0.0	6607.1
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	6997.9	0.0	6997.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.0	2.4
10°-20°	395.1	5.6
20°-30°	672.2	9.6
30°-40°	1156.1	16.5
40°-50°	1784.9	25.5
50°-60°	1794.4	25.6
60°-70°	920.2	13.1
70°-80°	99.7	1.4
80°-90°	10.4	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°	6997.9	100.0
0°-180°	6997.9	100.0

**Coefficient of Utilization**



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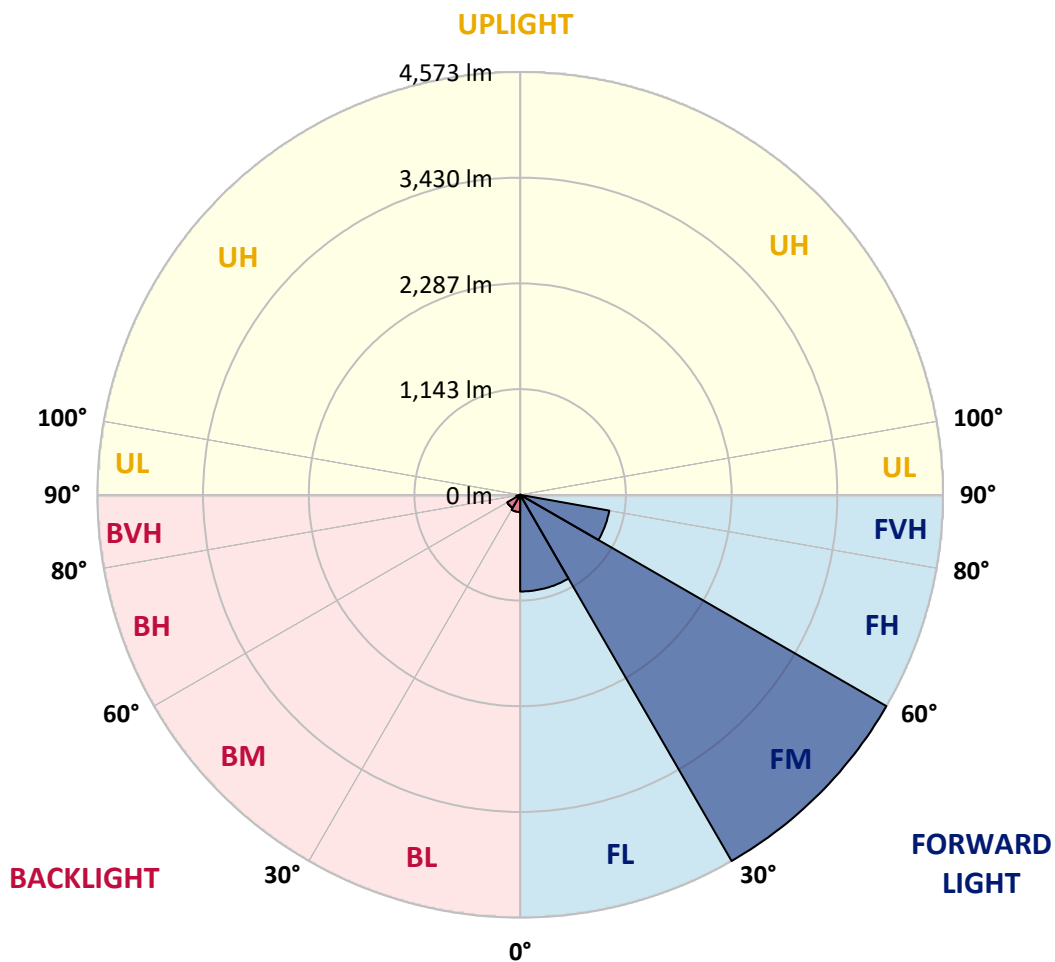
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1045.7	14.9			
FM	(30°-60°)	4573.1	65.3			
FH	(60°-80°)	978.0	14.0			G1/1800
FVH	(80°-90°)	10.2	0.1			G1/100
BL	(0°-30°)	186.6	2.7	B1/500		
BM	(30°-60°)	162.2	2.3	B0/220		
BH	(60°-80°)	41.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0
2.5°	2330.8	2306.0	2298.7	2293.7	2270.9	2242.4	2203.6	2185.4	2148.2	2088.4	2014.9
5°	2544.4	2539.8	2523.2	2514.1	2489.8	2449.4	2387.4	2357.7	2298.7	2197.9	2066.1
7.5°	2451.0	2479.5	2502.1	2540.2	2588.1	2586.5	2534.5	2503.4	2437.5	2304.4	2123.1
10°	2090.4	2113.6	2150.8	2237.0	2413.0	2568.3	2629.3	2607.2	2554.3	2402.2	2178.0
12.5°	2019.8	2017.5	2024.1	2049.3	2141.3	2362.6	2613.3	2658.4	2647.7	2491.9	2230.1
15°	2057.5	2054.6	2053.7	2062.4	2084.6	2178.0	2492.3	2621.6	2704.5	2574.9	2274.2
17.5°	2162.8	2150.4	2143.7	2136.8	2130.2	2153.2	2346.9	2518.8	2713.3	2647.7	2311.0
20°	2343.1	2322.6	2298.3	2258.6	2221.4	2209.8	2285.8	2413.0	2682.2	2702.9	2335.0
22.5°	2570.0	2543.6	2501.4	2429.1	2353.6	2309.8	2316.0	2379.6	2636.0	2763.2	2346.2
25°	2824.8	2790.9	2734.7	2634.4	2523.2	2445.6	2405.2	2427.5	2615.0	2833.9	2358.9
27.5°	3097.7	3060.2	2986.7	2850.0	2724.0	2619.1	2536.5	2533.6	2650.9	2926.4	2379.6
30°	3368.3	3362.4	3266.6	3122.1	2955.2	2827.7	2708.7	2693.5	2751.2	3054.3	2420.5
32.5°	3729.1	3685.8	3568.5	3419.8	3227.4	3074.2	2933.3	2897.8	2905.3	3203.4	2483.6
35°	4184.2	4136.8	3971.5	3766.4	3551.2	3370.4	3214.7	3166.3	3148.1	3447.5	2590.3
37.5°	4478.3	4477.5	4373.8	4164.9	3933.9	3734.6	3565.3	3508.7	3471.9	3742.3	2755.5
40°	4486.1	4505.5	4519.3	4517.1	4352.7	4169.0	4018.7	3948.9	3863.4	4136.3	2968.9
42.5°	4245.4	4295.3	4415.6	4619.5	4717.0	4644.0	4517.1	4448.5	4321.3	4558.0	3229.0
45°	3919.9	3954.7	4164.9	4540.8	4914.4	5114.7	5018.1	4895.5	4727.8	4997.8	3462.3
47.5°	3774.1	3780.3	3916.3	4328.8	4929.3	5500.4	5559.2	5359.6	5097.0	5352.2	3645.0
50°	3338.6	3349.7	3537.2	3961.6	4755.0	5682.6	6102.5	5913.5	5499.7	5625.1	3711.4
52.5°	2516.2	2532.0	2769.8	3358.4	4275.9	5605.0	6491.6	6445.8	5940.8	5758.6	3715.1
55°	1484.7	1505.3	1732.4	2260.7	3363.3	5110.9	6520.4	6689.0	6288.9	5837.5	3709.3
57.5°	693.4	707.9	837.8	1164.7	2091.8	4039.3	6085.2	6522.1	6480.8	5879.1	3750.2
60°	368.3	372.4	403.9	504.3	945.2	2561.2	5235.7	5889.5	6305.7	5937.0	3800.2
62.5°	281.7	282.8	281.2	293.1	397.3	1137.0	3957.6	4841.8	5600.8	5893.6	3744.9
65°	244.1	246.1	234.5	231.8	254.8	405.6	2351.0	3451.3	4401.1	5308.4	3367.8
67.5°	218.8	219.6	205.6	193.7	197.7	219.2	927.5	1889.3	2913.2	3891.1	2441.1
70°	201.5	200.7	185.4	166.5	161.1	149.8	294.9	692.6	1392.2	1973.1	1135.3
72.5°	178.5	178.9	171.3	146.7	133.8	104.9	136.7	201.9	415.5	537.6	266.0
75°	158.2	156.1	147.1	131.3	110.2	69.0	67.7	90.0	128.0	127.2	57.4
77.5°	114.4	112.3	115.3	107.7	84.7	44.6	33.9	43.4	52.0	50.3	16.1
80°	83.8	82.6	74.3	89.7	74.7	30.5	21.1	23.1	26.9	22.6	4.9
82.5°	57.4	57.0	52.5	49.5	42.5	18.5	13.2	14.5	17.3	12.8	2.4
85°	9.2	10.3	38.0	30.2	25.2	8.3	9.2	9.9	11.6	7.0	0.8
87.5°	0.0	0.0	17.7	15.7	4.9	3.4	5.4	5.7	5.7	3.8	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°	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0	1970.0
2.5°	1977.3	1936.0	1859.6	1780.8	1707.7	1620.5	1560.6	1515.6	1463.6	1449.5	1480.0
5°	1991.0	1912.9	1748.6	1569.7	1401.6	1215.3	1072.9	960.2	858.2	823.4	854.8
7.5°	2012.5	1896.4	1628.4	1334.0	1041.6	750.9	551.6	420.9	337.5	312.6	325.8
10°	2033.9	1872.4	1489.2	1054.7	655.0	365.5	238.0	190.0	172.2	168.5	170.6
12.5°	2051.6	1840.2	1319.5	749.9	350.2	195.7	155.6	147.9	145.3	145.3	146.2
15°	2062.4	1791.5	1118.3	477.0	201.5	147.9	135.9	133.4	133.4	133.8	134.7
17.5°	2061.3	1729.5	898.2	288.6	150.7	131.0	123.8	121.8	121.5	122.2	122.7
20°	2045.9	1648.6	677.3	190.4	131.3	119.4	112.3	108.7	108.2	109.1	109.9
22.5°	2017.0	1548.7	484.5	146.7	118.5	108.2	99.5	96.2	96.2	97.0	97.8
25°	1981.9	1426.4	331.3	124.3	107.0	96.2	87.9	85.1	85.9	87.9	88.4
27.5°	1938.2	1288.9	225.0	106.5	93.0	84.3	78.1	75.9	78.1	80.9	81.7
30°	1900.5	1145.6	160.6	92.0	79.0	72.8	69.0	69.0	71.9	77.3	78.4
32.5°	1871.6	1006.8	123.8	81.3	68.5	63.2	61.2	63.2	67.7	73.1	74.3
35°	1867.8	892.5	104.9	72.8	61.2	55.8	54.9	58.6	63.2	67.4	68.1
37.5°	1896.4	786.7	94.6	65.7	54.4	49.5	48.8	53.3	57.9	62.8	64.0
40°	1950.5	703.7	87.1	59.1	49.1	43.7	42.1	45.5	51.7	58.2	59.8
42.5°	2020.6	635.1	79.0	52.5	43.7	36.3	34.2	38.0	44.6	51.7	53.7
45°	2087.7	576.2	69.8	45.0	36.7	28.0	27.3	32.2	35.6	42.5	44.1
47.5°	2124.3	524.2	62.0	36.7	28.4	22.6	22.6	24.0	27.3	35.6	37.2
50°	2111.9	482.4	53.7	27.3	19.9	17.3	17.3	17.0	21.9	28.4	29.7
52.5°	2087.2	458.5	46.3	21.1	13.7	12.3	11.1	12.3	15.4	18.1	18.5
55°	2083.4	454.3	38.8	17.0	9.5	8.3	6.2	6.2	6.2	5.7	4.9
57.5°	2112.4	460.9	32.6	13.7	7.0	5.4	3.4	0.0	0.0	0.0	0.0
60°	2142.1	467.8	28.0	9.5	4.9	2.9	0.4	0.0	0.0	0.0	0.0
62.5°	2092.5	452.1	23.5	5.7	3.8	1.3	0.0	0.0	0.0	0.0	0.0
65°	1838.1	385.0	18.5	4.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1307.6	257.8	12.3	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	596.7	107.7	7.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	127.6	33.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.1	24.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.3	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.9	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	4.1	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)