

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: P270017

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270017
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: GPC-AF-02-LED-E1-AFL-7027-800-HSS
Description: GALLEON PEDESTRIAN 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: 7138.3 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 86
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

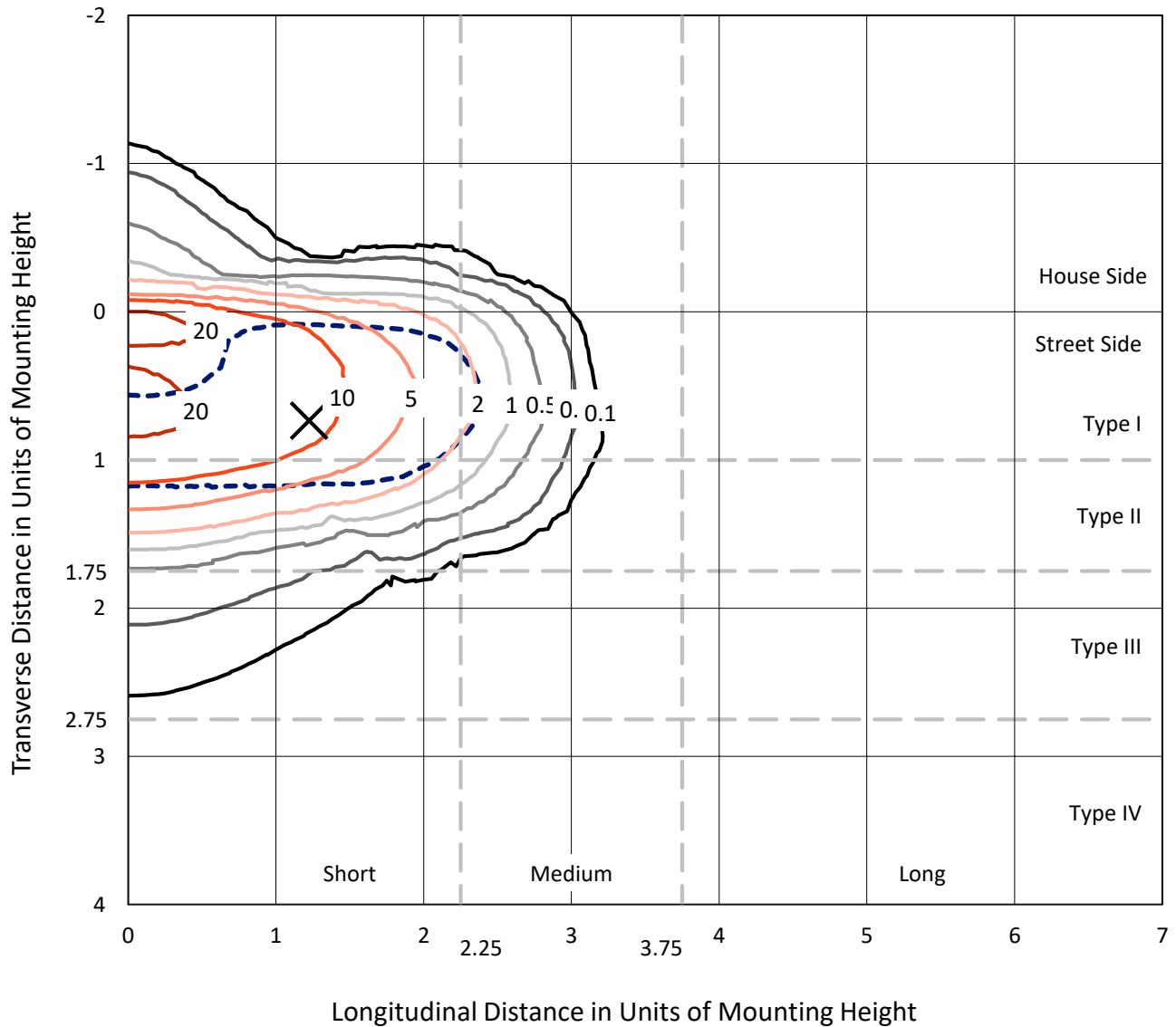


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Iso-Footcandle Lines of Horizontal Illumination

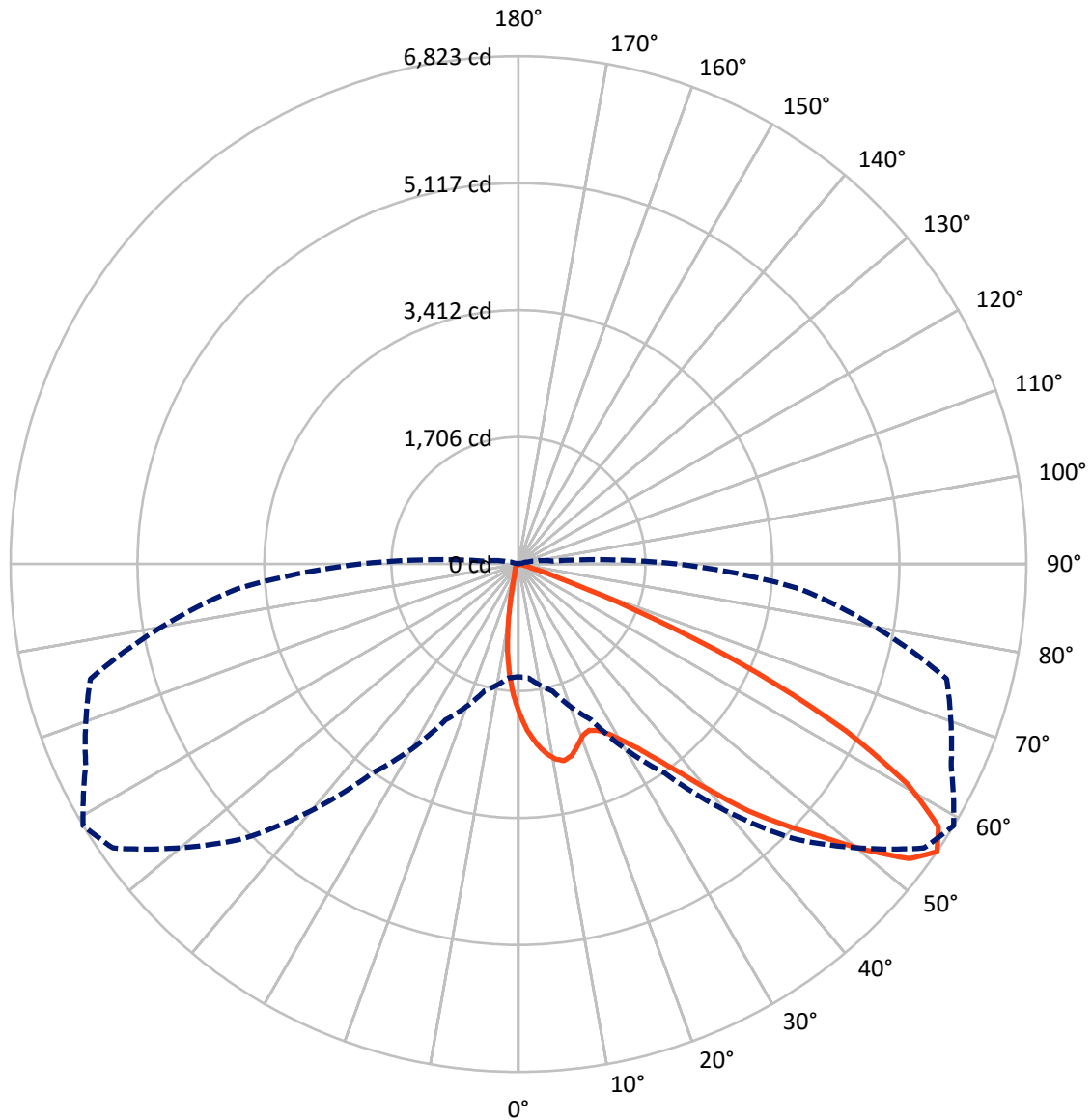
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25 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	398.7	0.0	398.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	6739.6	0.0	6739.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	7138.3	0.0	7138.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	2.4
10°-20°	403.0	5.6
20°-30°	685.7	9.6
30°-40°	1179.3	16.5
40°-50°	1820.7	25.5
50°-60°	1830.4	25.6
60°-70°	938.6	13.1
70°-80°	101.7	1.4
80°-90°	10.6	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°	7138.3	100.0
0°-180°	7138.3	100.0

Coefficient of Utilization



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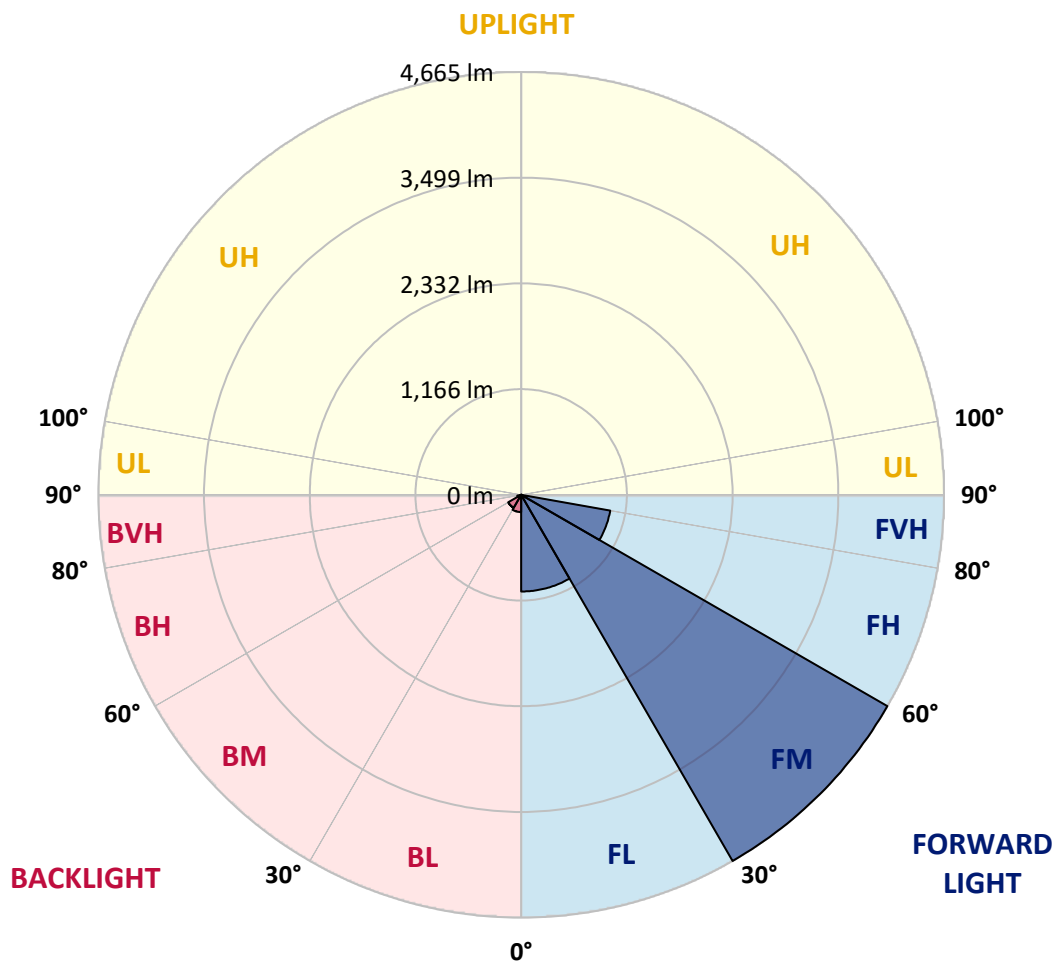
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1066.7	14.9			
FM	(30°-60°)	4664.9	65.3			
FH	(60°-80°)	997.6	14.0			G1/1800
FVH	(80°-90°)	10.4	0.1			G1/100
BL	(0°-30°)	190.3	2.7	B1/500		
BM	(30°-60°)	165.5	2.3	B0/220		
BH	(60°-80°)	42.7	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°	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4
2.5°	2377.6	2352.3	2344.8	2339.6	2316.5	2287.4	2247.9	2229.4	2191.3	2130.3	2055.3
5°	2595.5	2590.7	2574.0	2564.7	2539.8	2498.5	2435.3	2404.9	2344.8	2241.9	2107.6
7.5°	2500.3	2529.3	2552.4	2591.3	2639.9	2638.3	2585.3	2553.7	2486.2	2350.7	2165.8
10°	2132.4	2156.0	2193.9	2282.0	2461.4	2619.7	2682.2	2659.4	2605.5	2450.4	2221.7
12.5°	2060.4	2057.8	2064.6	2090.3	2184.1	2410.1	2665.7	2711.7	2700.8	2541.8	2274.8
15°	2098.7	2095.7	2094.9	2103.8	2126.5	2221.7	2542.4	2674.2	2758.9	2626.6	2319.9
17.5°	2206.1	2193.5	2186.7	2179.6	2172.9	2196.4	2394.1	2569.2	2767.7	2700.8	2357.3
20°	2390.2	2369.2	2344.2	2303.9	2266.0	2254.1	2331.7	2461.4	2736.1	2757.2	2381.8
22.5°	2621.6	2594.6	2551.5	2477.9	2400.8	2356.2	2362.5	2427.3	2688.8	2818.6	2393.2
25°	2881.5	2846.9	2789.5	2687.2	2574.0	2494.8	2453.5	2476.2	2667.3	2890.7	2406.2
27.5°	3159.9	3121.5	3046.5	2907.2	2778.6	2671.6	2587.4	2584.5	2704.1	2985.1	2427.3
30°	3435.7	3429.9	3332.2	3184.8	3014.5	2884.4	2763.0	2747.5	2806.5	3115.6	2469.0
32.5°	3804.1	3759.8	3640.1	3488.5	3292.2	3135.9	2992.3	2956.1	2963.6	3267.8	2533.5
35°	4268.1	4219.8	4051.3	3842.0	3622.4	3438.0	3279.2	3229.8	3211.4	3516.7	2642.2
37.5°	4568.2	4567.3	4461.5	4248.4	4012.9	3809.4	3636.8	3579.0	3541.6	3817.4	2810.6
40°	4576.1	4596.0	4609.8	4607.8	4440.1	4252.7	4099.2	4028.1	3940.9	4219.2	3028.5
42.5°	4330.5	4381.6	4504.1	4712.1	4811.6	4737.0	4607.8	4537.8	4408.1	4649.4	3293.8
45°	3998.5	4034.0	4248.4	4631.8	5013.0	5217.3	5118.7	4993.6	4822.6	5098.2	3531.9
47.5°	3849.9	3856.2	3994.9	4415.7	5028.2	5610.8	5670.6	5467.2	5199.2	5459.4	3718.1
50°	3405.5	3416.9	3608.1	4041.1	4850.4	5796.6	6225.0	6031.9	5609.9	5738.0	3785.8
52.5°	2566.7	2582.7	2825.3	3425.6	4361.7	5717.4	6621.8	6575.1	6059.8	5874.0	3789.7
55°	1514.5	1535.6	1767.1	2305.9	3430.7	5213.6	6651.3	6823.2	6414.9	5954.5	3783.8
57.5°	707.2	722.1	854.7	1188.0	2133.7	4120.3	6207.3	6652.9	6610.8	5997.1	3825.4
60°	375.9	380.0	412.1	514.4	964.3	2612.6	5340.8	6007.5	6432.3	6056.1	3876.5
62.5°	287.3	288.5	286.9	299.0	405.2	1159.7	4037.0	4938.8	5713.1	6011.7	3820.0
65°	249.0	251.0	239.3	236.3	259.9	413.7	2398.3	3520.5	4489.4	5414.9	3435.4
67.5°	223.3	224.0	209.8	197.5	201.8	223.7	946.2	1927.3	2971.6	3969.2	2490.0
70°	205.6	204.8	189.2	169.8	164.3	152.9	300.8	706.4	1420.1	2012.8	1158.0
72.5°	181.9	182.4	174.8	149.6	136.5	107.0	139.4	206.0	423.8	548.4	271.3
75°	161.3	159.2	149.9	133.9	112.5	70.3	69.1	91.8	130.7	129.7	58.6
77.5°	116.7	114.5	117.5	110.0	86.3	45.5	34.6	44.2	53.1	51.5	16.3
80°	85.5	84.3	75.8	91.4	76.3	31.3	21.5	23.5	27.4	23.1	5.1
82.5°	58.6	58.1	53.4	50.6	43.4	19.0	13.5	14.7	17.6	13.0	2.5
85°	9.3	10.5	38.7	30.7	25.7	8.4	9.3	10.2	11.8	7.1	0.9
87.5°	0.0	0.0	18.1	16.0	5.1	3.4	5.5	5.8	5.8	3.9	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°	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4	2009.4
2.5°	2017.0	1974.8	1897.0	1816.5	1742.0	1653.1	1591.9	1546.1	1493.0	1478.6	1509.8
5°	2030.9	1951.3	1783.7	1601.1	1429.7	1239.8	1094.5	979.4	875.4	839.9	872.1
7.5°	2052.7	1934.4	1661.1	1360.7	1062.4	765.9	562.8	429.3	344.2	318.9	332.4
10°	2074.7	1909.9	1519.0	1075.9	668.1	372.7	242.6	193.8	175.7	171.8	174.0
12.5°	2092.8	1877.2	1345.9	764.9	357.3	199.7	158.8	150.8	148.3	148.3	149.1
15°	2103.8	1827.4	1140.8	486.5	205.6	150.8	138.6	136.1	136.1	136.5	137.4
17.5°	2102.6	1764.2	916.2	294.5	153.8	133.6	126.4	124.2	123.8	124.7	125.1
20°	2086.9	1681.6	690.8	194.3	133.9	121.7	114.5	110.9	110.4	111.2	112.1
22.5°	2057.5	1579.7	494.2	149.6	120.9	110.4	101.5	98.2	98.2	99.1	99.8
25°	2021.6	1455.1	337.9	126.8	109.1	98.2	89.7	86.7	87.7	89.7	90.2
27.5°	1977.0	1314.8	229.5	108.7	94.9	86.0	79.6	77.6	79.6	82.6	83.5
30°	1938.6	1168.5	163.9	94.0	80.5	74.1	70.3	70.3	73.3	78.8	79.9
32.5°	1909.2	1027.0	126.4	83.1	69.9	64.5	62.3	64.5	69.1	74.6	75.8
35°	1905.3	910.3	107.0	74.1	62.3	56.9	56.1	59.7	64.5	68.7	69.4
37.5°	1934.4	802.5	96.5	67.0	55.7	50.6	49.6	54.3	59.0	64.0	65.2
40°	1989.7	717.8	88.9	60.2	50.1	44.6	42.9	46.4	52.7	59.4	61.1
42.5°	2061.3	647.9	80.5	53.4	44.6	37.1	34.9	38.7	45.5	52.7	54.7
45°	2129.4	587.6	71.1	46.0	37.5	28.7	27.8	32.9	36.2	43.4	45.0
47.5°	2166.9	534.6	63.2	37.5	29.0	23.1	23.1	24.4	27.8	36.2	37.9
50°	2154.3	492.0	54.7	27.8	20.2	17.6	17.6	17.2	22.3	29.0	30.4
52.5°	2129.1	467.6	47.3	21.5	14.0	12.7	11.4	12.7	15.6	18.5	19.0
55°	2125.3	463.3	39.5	17.2	9.7	8.4	6.3	6.3	6.3	5.8	5.1
57.5°	2154.8	470.2	33.2	14.0	7.1	5.5	3.4	0.0	0.0	0.0	0.0
60°	2185.0	477.3	28.7	9.7	5.1	3.0	0.4	0.0	0.0	0.0	0.0
62.5°	2134.6	461.3	24.1	5.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0
65°	1875.0	392.6	19.0	4.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1333.8	262.8	12.7	2.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	608.7	110.0	8.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	130.2	34.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.5	24.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.4	39.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.1	28.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.9	4.2	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)