

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: P199928

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199928
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-7030-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 9835.5 lumens
Efficiency: N/A
Efficacy: 87.0 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): 113
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

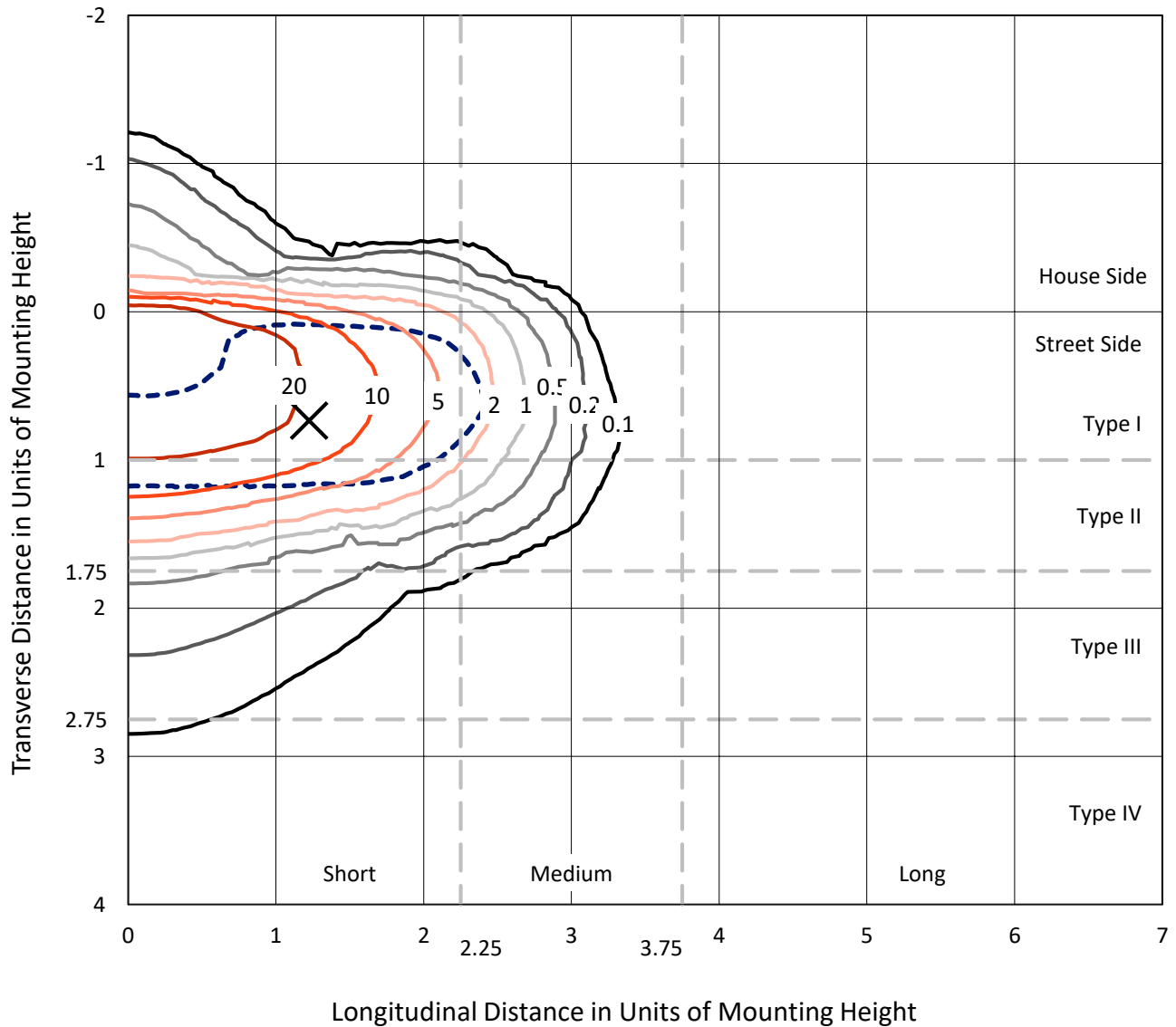


REPORT NUMBER: P199928

CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

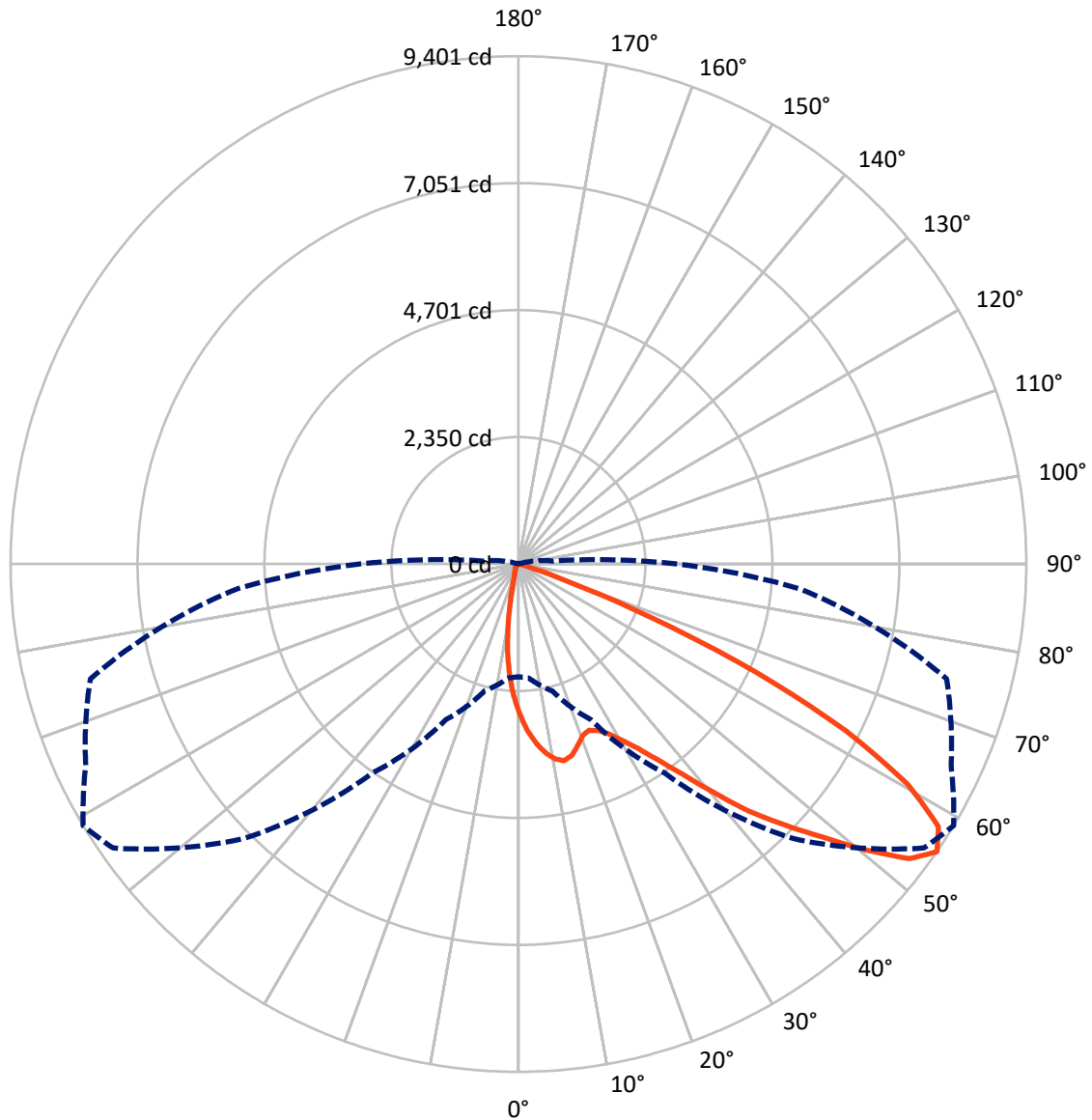
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.4 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P199928
CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7030-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P199928

CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7030-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.4	0.0	549.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9286.2	0.0	9286.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	9835.5	0.0	9835.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.9	2.4
10°-20°	555.2	5.6
20°-30°	944.8	9.6
30°-40°	1624.9	16.5
40°-50°	2508.6	25.5
50°-60°	2522.0	25.6
60°-70°	1293.3	13.1
70°-80°	140.2	1.4
80°-90°	14.7	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°	9835.5	100.0
0°-180°	9835.5	100.0



REPORT NUMBER: P199928

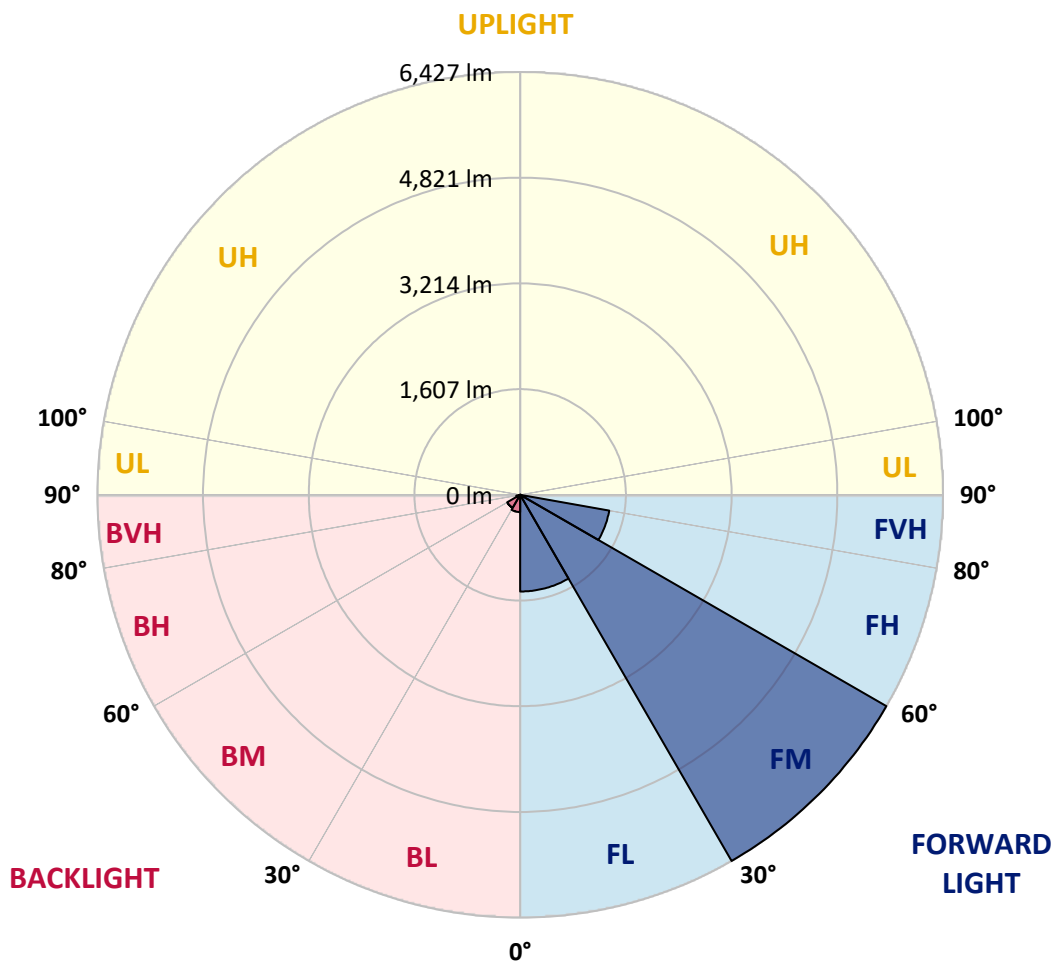
CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.7	14.9			
FM (30°-60°)	6427.5	65.3			
FH (60°-80°)	1374.6	14.0			G1/1800
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	262.2	2.7	B1/500		
BM (30°-60°)	228.0	2.3	B1/1000		
BH (60°-80°)	58.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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: P199928

CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6
2.5°	3275.9	3241.1	3230.7	3223.7	3191.8	3151.8	3097.2	3071.6	3019.4	2935.2	2831.9
5°	3576.0	3569.6	3546.4	3533.7	3499.5	3442.5	3355.5	3313.8	3230.7	3089.1	2903.9
7.5°	3444.8	3485.0	3516.8	3570.3	3637.6	3635.3	3562.1	3518.5	3425.8	3238.8	2984.0
10°	2938.2	2970.6	3022.8	3144.2	3391.5	3609.7	3695.5	3664.2	3589.9	3376.3	3061.2
12.5°	2838.9	2835.4	2844.7	2880.1	3009.5	3320.6	3673.0	3736.2	3721.2	3502.3	3134.3
15°	2891.8	2887.6	2886.5	2898.6	2930.0	3061.2	3503.0	3684.6	3801.2	3619.0	3196.5
17.5°	3039.7	3022.3	3013.1	3003.2	2993.9	3026.4	3298.6	3540.1	3813.4	3721.2	3248.1
20°	3293.4	3264.3	3230.1	3174.4	3122.2	3105.9	3212.7	3391.5	3769.9	3799.0	3281.7
22.5°	3612.0	3574.9	3515.6	3414.2	3308.0	3246.3	3255.1	3344.4	3704.9	3883.6	3297.5
25°	3970.2	3922.5	3843.6	3702.6	3546.4	3437.3	3380.5	3411.7	3675.3	3982.9	3315.5
27.5°	4353.9	4301.0	4197.7	4005.6	3828.6	3681.1	3565.0	3561.0	3725.8	4112.9	3344.4
30°	4733.9	4725.9	4591.2	4388.1	4153.6	3974.2	3807.0	3785.7	3866.8	4292.9	3401.9
32.5°	5241.2	5180.3	5015.5	4806.6	4536.1	4320.7	4122.8	4072.8	4083.3	4502.5	3490.8
35°	5881.0	5814.2	5582.0	5293.5	4991.2	4736.9	4518.1	4450.1	4424.7	4845.4	3640.5
37.5°	6294.2	6293.0	6147.4	5853.7	5529.2	5248.9	5010.8	4931.3	4879.7	5259.8	3872.7
40°	6305.3	6332.5	6351.7	6348.7	6117.8	5859.5	5648.1	5550.1	5429.9	5813.5	4172.7
42.5°	5966.8	6037.1	6206.0	6492.7	6629.8	6526.9	6348.7	6252.5	6073.6	6406.2	4538.4
45°	5509.5	5558.2	5853.7	6381.9	6907.2	7188.6	7052.8	6880.5	6644.8	7024.4	4866.3
47.5°	5304.5	5313.3	5504.3	6084.1	6928.0	7730.7	7813.2	7532.9	7163.7	7522.4	5122.9
50°	4692.2	4707.9	4971.4	5568.1	6683.1	7986.8	8577.1	8311.3	7729.6	7906.1	5216.4
52.5°	3536.6	3558.7	3892.9	4720.1	6009.8	7877.6	9123.8	9059.3	8349.5	8093.6	5221.6
55°	2086.7	2115.7	2435.0	3177.3	4727.0	7183.5	9164.4	9401.2	8838.8	8204.4	5213.5
57.5°	974.6	995.0	1177.7	1636.8	2939.8	5677.2	8552.7	9166.8	9108.7	8263.1	5270.8
60°	517.8	523.6	567.7	708.6	1328.6	3599.9	7358.7	8277.6	8862.7	8344.3	5341.1
62.5°	395.8	397.6	395.3	412.1	558.5	1597.9	5562.3	6805.0	7871.8	8283.4	5263.3
65°	343.1	346.0	329.6	325.6	358.2	570.0	3304.4	4850.7	6185.7	7460.9	4733.4
67.5°	307.7	308.7	289.1	272.3	278.1	308.2	1303.7	2655.4	4094.4	5468.9	3431.0
70°	283.2	282.1	260.6	234.0	226.3	210.7	414.4	973.4	1956.7	2773.3	1595.6
72.5°	250.7	251.3	240.9	206.1	188.0	147.4	192.1	283.8	583.9	755.7	373.7
75°	222.4	219.4	206.6	184.5	154.9	96.9	95.2	126.5	180.0	178.7	80.7
77.5°	160.8	157.9	161.9	151.6	119.0	62.8	47.6	60.9	73.1	70.8	22.6
80°	117.8	116.1	104.5	125.9	105.1	42.9	29.6	32.4	37.7	31.9	7.0
82.5°	80.7	80.1	73.8	69.6	59.8	26.1	18.6	20.3	24.4	18.0	3.5
85°	12.8	14.5	53.4	42.4	35.4	11.6	12.8	13.8	16.3	9.9	1.2
87.5°	0.0	0.0	24.9	22.1	7.0	4.6	7.5	8.0	8.0	5.3	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



REPORT NUMBER: P199928

CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6	2768.6
2.5°	2779.1	2721.1	2613.7	2502.8	2400.1	2277.6	2193.5	2130.2	2057.1	2037.3	2080.3
5°	2798.2	2688.6	2457.6	2206.3	1970.0	1708.2	1508.0	1349.5	1206.1	1157.4	1201.6
7.5°	2828.4	2665.4	2288.7	1874.8	1463.8	1055.2	775.4	591.4	474.1	439.4	458.1
10°	2858.7	2631.7	2093.1	1482.4	920.6	513.7	334.4	267.0	242.0	236.8	239.8
12.5°	2883.6	2586.3	1854.4	1054.1	492.2	275.2	218.8	207.8	204.4	204.4	205.5
15°	2898.6	2517.9	1571.8	670.5	283.2	207.8	190.9	187.5	187.5	188.0	189.2
17.5°	2896.9	2430.8	1262.5	405.7	211.9	184.0	174.2	171.2	170.7	171.7	172.4
20°	2875.4	2317.1	951.8	267.5	184.5	167.7	157.9	152.6	152.1	153.2	154.4
22.5°	2834.8	2176.7	680.8	206.1	166.6	152.1	139.9	135.3	135.3	136.3	137.5
25°	2785.4	2004.8	465.6	174.7	150.3	135.3	123.7	119.5	120.7	123.7	124.2
27.5°	2724.0	1811.5	316.3	149.8	130.6	118.4	109.7	106.7	109.7	113.7	114.9
30°	2671.2	1610.2	225.8	129.5	110.9	102.1	96.9	96.9	100.9	108.5	110.3
32.5°	2630.5	1415.1	174.2	114.4	96.3	88.8	85.9	88.8	95.2	102.7	104.5
35°	2625.3	1254.3	147.4	102.1	85.9	78.3	77.2	82.4	88.8	94.6	95.8
37.5°	2665.4	1105.7	133.0	92.4	76.6	69.6	68.5	74.9	81.3	88.2	89.9
40°	2741.5	989.1	122.5	83.0	69.1	61.5	59.2	63.8	72.5	81.8	84.1
42.5°	2840.0	892.7	110.9	73.8	61.5	51.1	48.2	53.4	62.8	72.5	75.5
45°	2934.0	809.7	98.2	63.3	51.7	39.5	38.4	45.3	49.9	59.8	62.1
47.5°	2985.7	736.5	87.1	51.7	40.1	31.9	31.9	33.7	38.4	49.9	52.2
50°	2968.3	678.0	75.5	38.4	27.9	24.4	24.4	23.8	30.8	40.1	41.7
52.5°	2933.5	644.3	65.0	29.6	19.1	17.4	15.7	17.4	21.6	25.5	26.1
55°	2928.2	638.5	54.5	23.8	13.3	11.6	8.7	8.7	8.7	8.0	7.0
57.5°	2968.9	647.8	45.9	19.1	9.9	7.5	4.6	0.0	0.0	0.0	0.0
60°	3010.7	657.6	39.5	13.3	7.0	4.1	0.5	0.0	0.0	0.0	0.0
62.5°	2941.0	635.6	33.1	8.0	5.3	1.7	0.0	0.0	0.0	0.0	0.0
65°	2583.6	541.0	26.1	5.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1837.6	362.2	17.4	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	838.7	151.6	11.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	179.4	47.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	36.6	34.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	54.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.0	38.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	5.8	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)