

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: P200088

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200088
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-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 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: 10402.4 lumens
Efficiency: N/A
Efficacy: 92.1 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

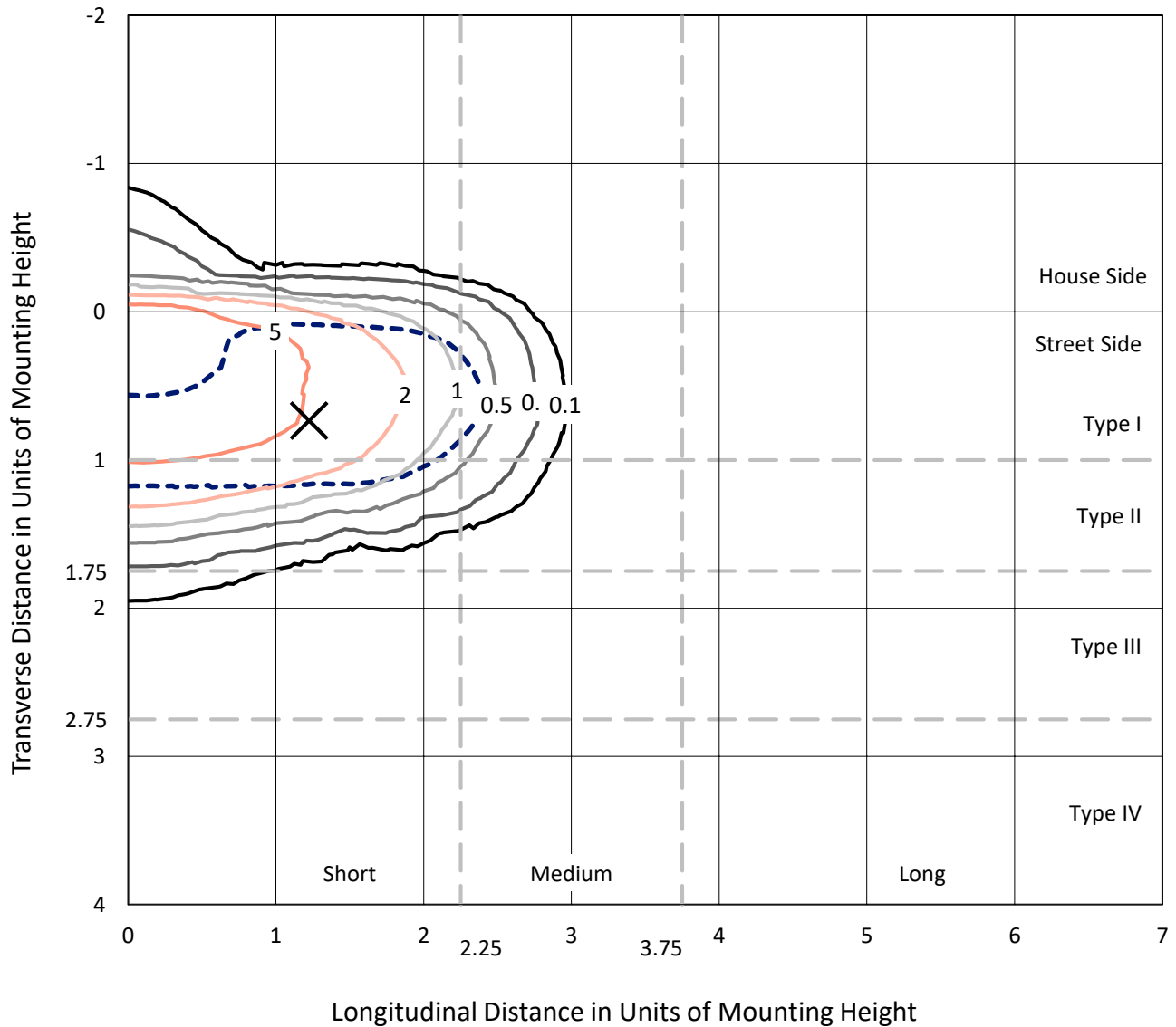
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

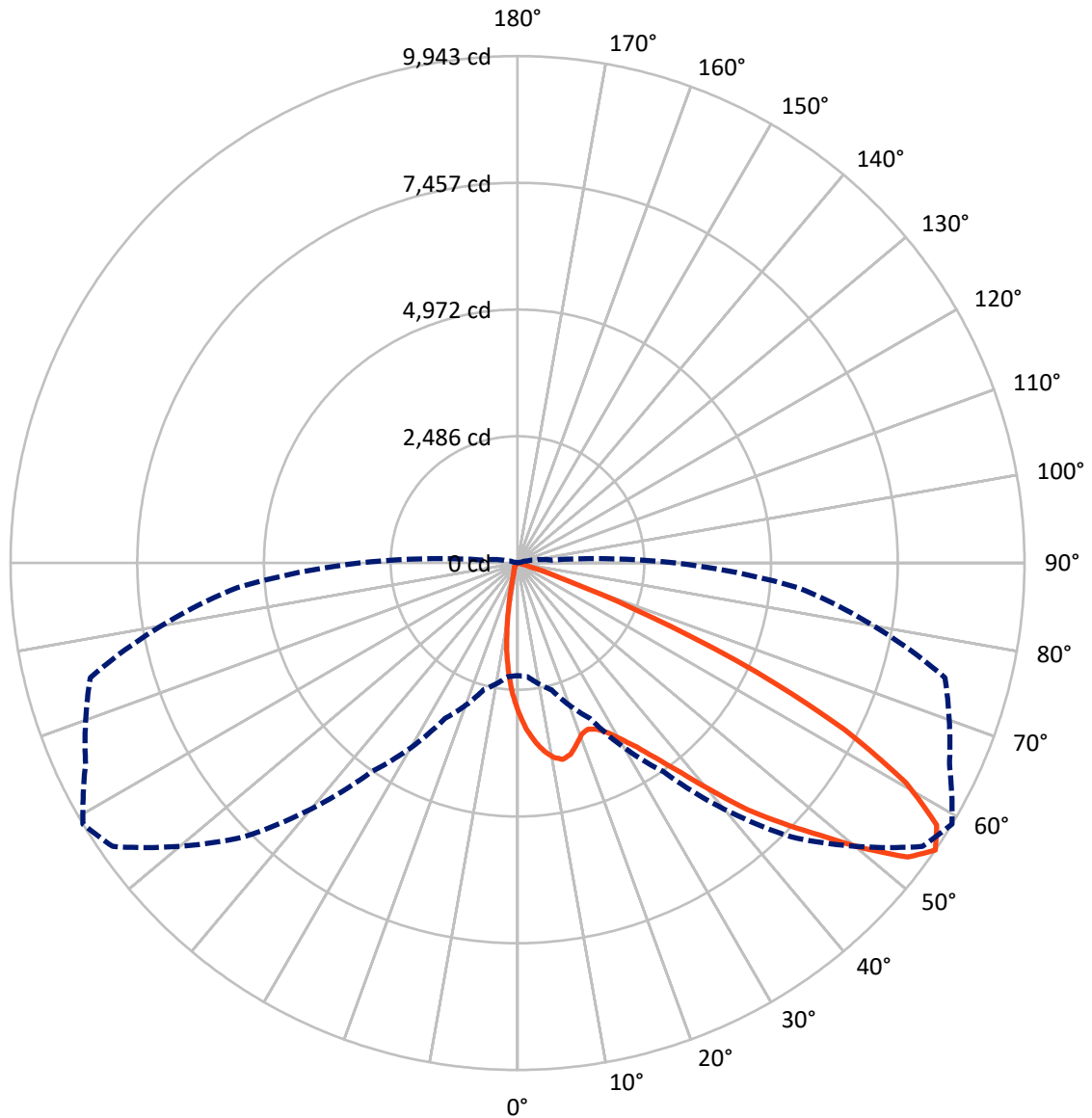
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 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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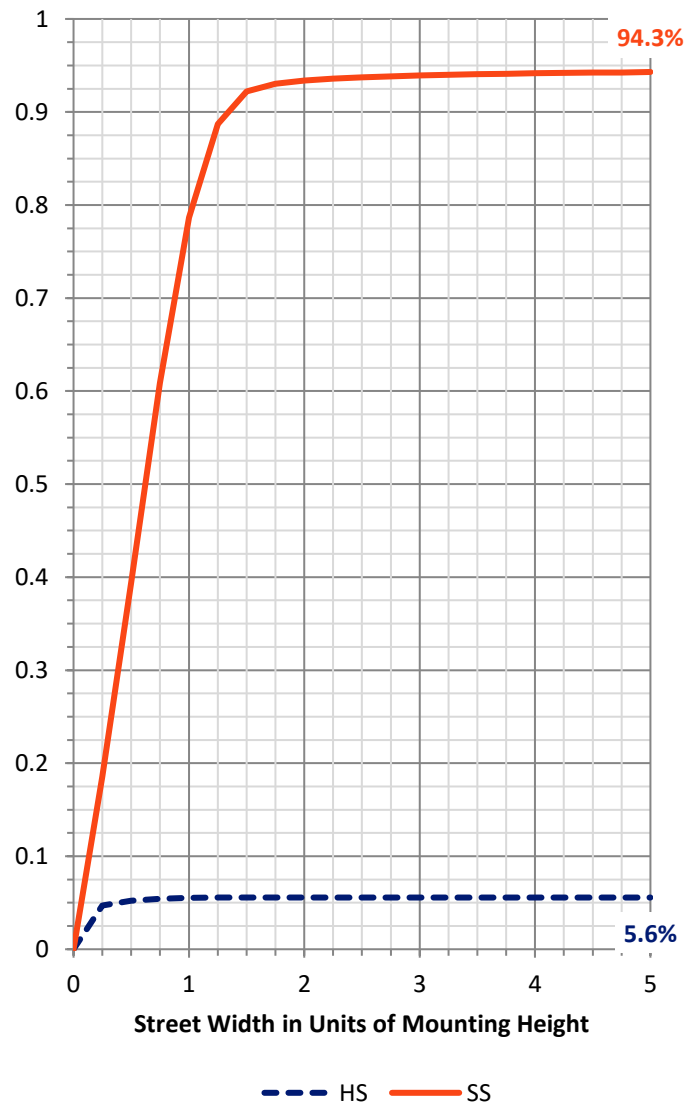
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	581.0	0.0	581.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9821.3	0.0	9821.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	10402.4	0.0	10402.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	2.4
10°-20°	587.2	5.6
20°-30°	999.3	9.6
30°-40°	1718.5	16.5
40°-50°	2653.2	25.5
50°-60°	2667.3	25.6
60°-70°	1367.8	13.1
70°-80°	148.2	1.4
80°-90°	15.5	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°	10402.4	100.0
0°-180°	10402.4	100.0

Coefficient of Utilization



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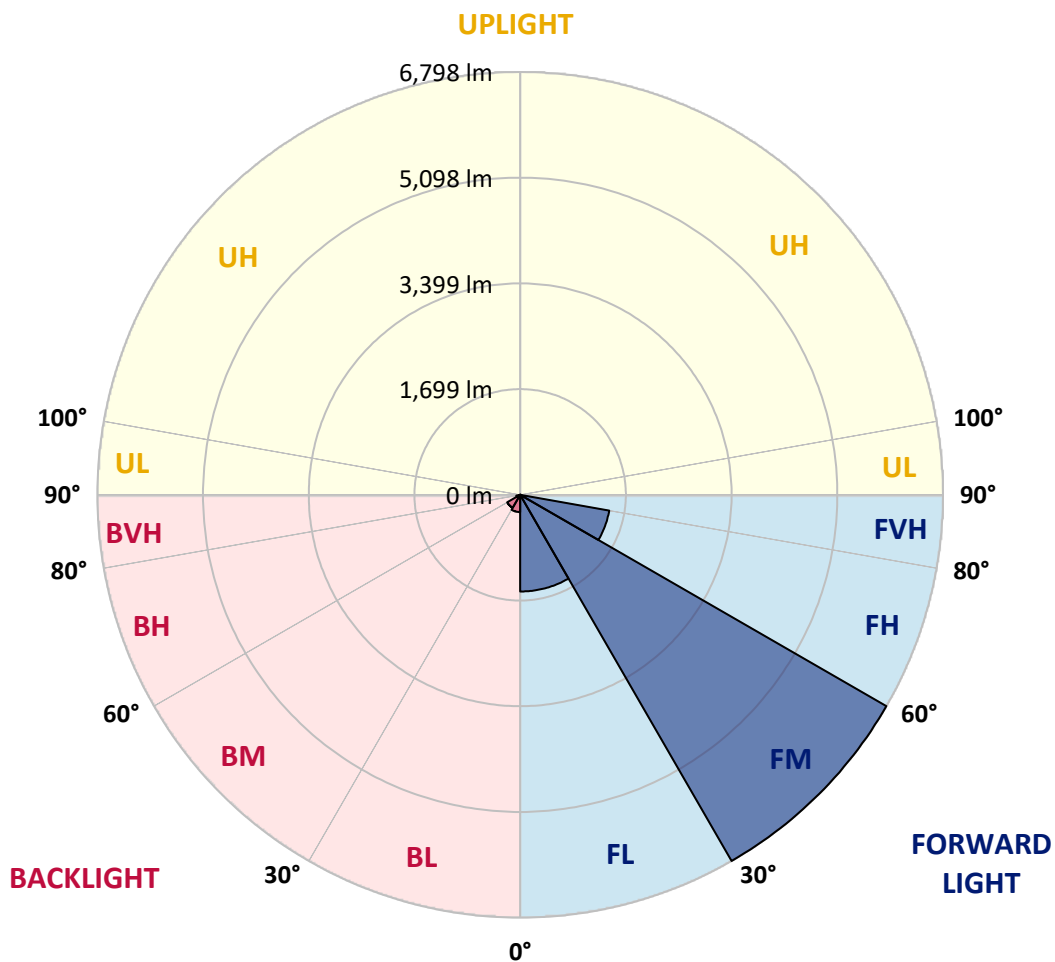
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1554.5	14.9			
FM	(30°-60°)	6797.9	65.3			
FH	(60°-80°)	1453.8	14.0			G1/1800
FVH	(80°-90°)	15.2	0.1			G1/100
BL	(0°-30°)	277.3	2.7	B1/500		
BM	(30°-60°)	241.1	2.3	B1/1000		
BH	(60°-80°)	62.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2
2.5°	3464.7	3427.9	3416.9	3409.5	3375.7	3333.4	3275.7	3248.7	3193.4	3104.5	2995.1
5°	3782.2	3775.4	3750.9	3737.4	3701.1	3641.0	3548.9	3504.6	3416.9	3267.1	3071.3
7.5°	3643.4	3685.8	3719.6	3776.0	3847.2	3844.8	3767.4	3721.4	3623.2	3425.5	3156.0
10°	3107.5	3141.9	3197.1	3325.4	3587.0	3817.8	3908.6	3875.4	3796.9	3571.0	3237.6
12.5°	3002.6	2998.8	3008.7	3046.1	3183.0	3512.0	3884.7	3951.6	3935.6	3704.2	3315.0
15°	3058.4	3054.1	3052.9	3065.8	3098.9	3237.6	3704.8	3896.9	4020.3	3827.6	3380.6
17.5°	3214.9	3196.5	3186.7	3176.3	3166.4	3200.8	3488.7	3744.1	4033.2	3935.6	3435.3
20°	3483.1	3452.5	3416.2	3357.3	3302.1	3284.9	3397.8	3587.0	3987.2	4017.8	3470.9
22.5°	3820.2	3780.9	3718.3	3610.9	3498.5	3433.4	3442.6	3537.2	3918.4	4107.6	3487.4
25°	4199.0	4148.7	4065.1	3916.0	3750.9	3635.5	3575.3	3608.5	3887.1	4212.5	3506.5
27.5°	4604.7	4548.9	4439.6	4236.4	4049.1	3893.2	3770.5	3766.2	3940.5	4350.0	3537.2
30°	5006.8	4998.2	4855.8	4641.0	4393.0	4203.3	4026.4	4003.7	4089.7	4540.3	3598.0
32.5°	5543.4	5478.9	5304.6	5083.6	4797.5	4569.7	4360.4	4307.6	4318.7	4761.9	3691.9
35°	6219.8	6149.3	5903.8	5598.6	5278.8	5009.9	4778.5	4706.7	4679.7	5124.7	3850.3
37.5°	6657.0	6655.7	6501.7	6191.0	5847.9	5551.3	5299.7	5215.6	5160.9	5563.0	4095.9
40°	6668.6	6697.5	6717.7	6714.6	6470.4	6197.1	5973.7	5870.0	5742.9	6148.7	4413.2
42.5°	6310.8	6385.1	6563.7	6867.0	7011.8	6903.2	6714.6	6612.8	6423.7	6775.4	4800.0
45°	5827.0	5878.6	6191.0	6749.6	7305.2	7603.0	7459.4	7277.0	7027.8	7429.3	5146.8
47.5°	5610.3	5619.5	5821.5	6434.8	7327.3	8176.3	8263.5	7967.0	7576.6	7956.0	5418.2
50°	4962.6	4979.2	5258.0	5889.0	7068.3	8447.0	9071.4	8790.2	8175.1	8361.7	5517.0
52.5°	3740.4	3763.7	4117.4	4992.1	6356.2	8331.6	9649.7	9581.6	8830.7	8560.1	5522.5
55°	2206.9	2237.6	2575.3	3360.4	4999.5	7597.5	9692.7	9943.1	9348.2	8677.3	5513.9
57.5°	1030.7	1052.2	1245.5	1731.1	3109.4	6004.4	9045.6	9695.1	9633.7	8739.3	5574.7
60°	547.6	553.7	600.4	749.5	1405.2	3807.3	7782.8	8754.6	9373.4	8825.2	5648.9
62.5°	418.7	420.5	418.1	435.9	590.5	1690.0	5882.9	7197.2	8325.5	8760.8	5566.7
65°	362.8	365.9	348.7	344.4	378.8	602.8	3494.8	5130.2	6542.2	7890.8	5006.2
67.5°	325.4	326.6	305.8	288.0	294.1	326.0	1378.8	2808.5	4330.4	5784.1	3628.7
70°	299.6	298.4	275.7	247.3	239.4	222.8	438.3	1029.5	2069.4	2933.1	1687.6
72.5°	265.1	265.8	254.7	217.9	198.9	155.9	203.2	300.2	617.6	799.2	395.4
75°	235.1	232.0	218.5	195.2	163.9	102.5	100.7	133.8	190.3	189.0	85.3
77.5°	170.0	166.9	171.2	160.2	125.8	66.3	50.3	64.4	77.3	74.9	23.9
80°	124.6	122.8	110.5	133.2	111.1	45.4	31.3	34.4	39.9	33.8	7.4
82.5°	85.3	84.7	77.9	73.7	63.2	27.6	19.6	21.5	25.8	19.0	3.7
85°	13.5	15.3	56.5	44.8	37.4	12.3	13.5	14.7	17.2	10.4	1.2
87.5°	0.0	0.0	26.4	23.3	7.4	4.9	8.0	8.6	8.6	5.5	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°	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2
2.5°	2939.2	2877.9	2764.3	2647.1	2538.5	2408.8	2319.8	2252.9	2175.6	2154.7	2200.2
5°	2959.5	2843.5	2599.2	2333.4	2083.5	1806.6	1594.9	1427.3	1275.6	1224.1	1270.7
7.5°	2991.4	2818.9	2420.5	1982.9	1548.2	1116.0	820.2	625.5	501.6	464.7	484.4
10°	3023.4	2783.3	2213.7	1567.9	973.6	543.3	353.6	282.4	255.9	250.4	253.5
12.5°	3049.8	2735.5	1961.4	1114.8	520.6	291.0	231.4	219.7	216.0	216.0	217.3
15°	3065.8	2663.0	1662.4	709.0	299.6	219.7	201.9	198.2	198.2	198.9	200.1
17.5°	3063.9	2571.0	1335.2	429.1	224.0	194.6	184.1	181.1	180.4	181.7	182.3
20°	3041.2	2450.6	1006.8	283.1	195.2	177.4	166.9	161.4	160.8	162.0	163.3
22.5°	2998.2	2302.0	720.1	217.9	176.2	160.8	147.9	143.0	143.0	144.2	145.5
25°	2946.0	2120.4	492.3	184.7	159.0	143.0	130.7	126.4	127.7	130.7	131.3
27.5°	2880.9	1916.0	334.6	158.4	138.1	125.2	116.0	112.9	116.0	120.3	121.5
30°	2825.1	1702.9	238.8	136.9	117.2	108.0	102.5	102.5	106.8	114.8	116.6
32.5°	2782.1	1496.7	184.1	120.9	101.9	93.9	90.8	93.9	100.7	108.6	110.5
35°	2776.6	1326.6	155.9	108.0	90.8	82.9	81.6	87.2	93.9	100.0	101.3
37.5°	2818.9	1169.4	140.6	97.6	81.0	73.7	72.4	79.2	85.9	93.3	95.1
40°	2899.3	1046.1	129.5	87.8	73.0	65.1	62.6	67.5	76.7	86.5	89.0
42.5°	3003.8	944.2	117.2	77.9	65.1	54.0	50.9	56.5	66.3	76.7	79.8
45°	3103.2	856.4	103.7	66.9	54.6	41.7	40.5	47.9	52.8	63.2	65.7
47.5°	3157.8	779.0	92.1	54.6	42.4	33.8	33.8	35.6	40.5	52.8	55.2
50°	3139.4	717.0	79.8	40.5	29.5	25.8	25.8	25.2	32.5	42.4	44.2
52.5°	3102.6	681.4	68.7	31.3	20.3	18.4	16.6	18.4	22.7	27.0	27.6
55°	3097.1	675.2	57.7	25.2	14.1	12.3	9.2	9.2	9.2	8.6	7.4
57.5°	3140.0	685.1	48.5	20.3	10.4	8.0	4.9	0.0	0.0	0.0	0.0
60°	3184.2	695.5	41.7	14.1	7.4	4.3	0.6	0.0	0.0	0.0	0.0
62.5°	3110.6	672.2	35.0	8.6	5.5	1.8	0.0	0.0	0.0	0.0	0.0
65°	2732.4	572.1	27.6	6.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1943.6	383.1	18.4	3.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	887.1	160.2	11.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	189.7	49.7	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	38.7	36.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.3	57.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.4	41.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	6.1	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)