

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: P270043

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7027-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5770.1 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 66
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

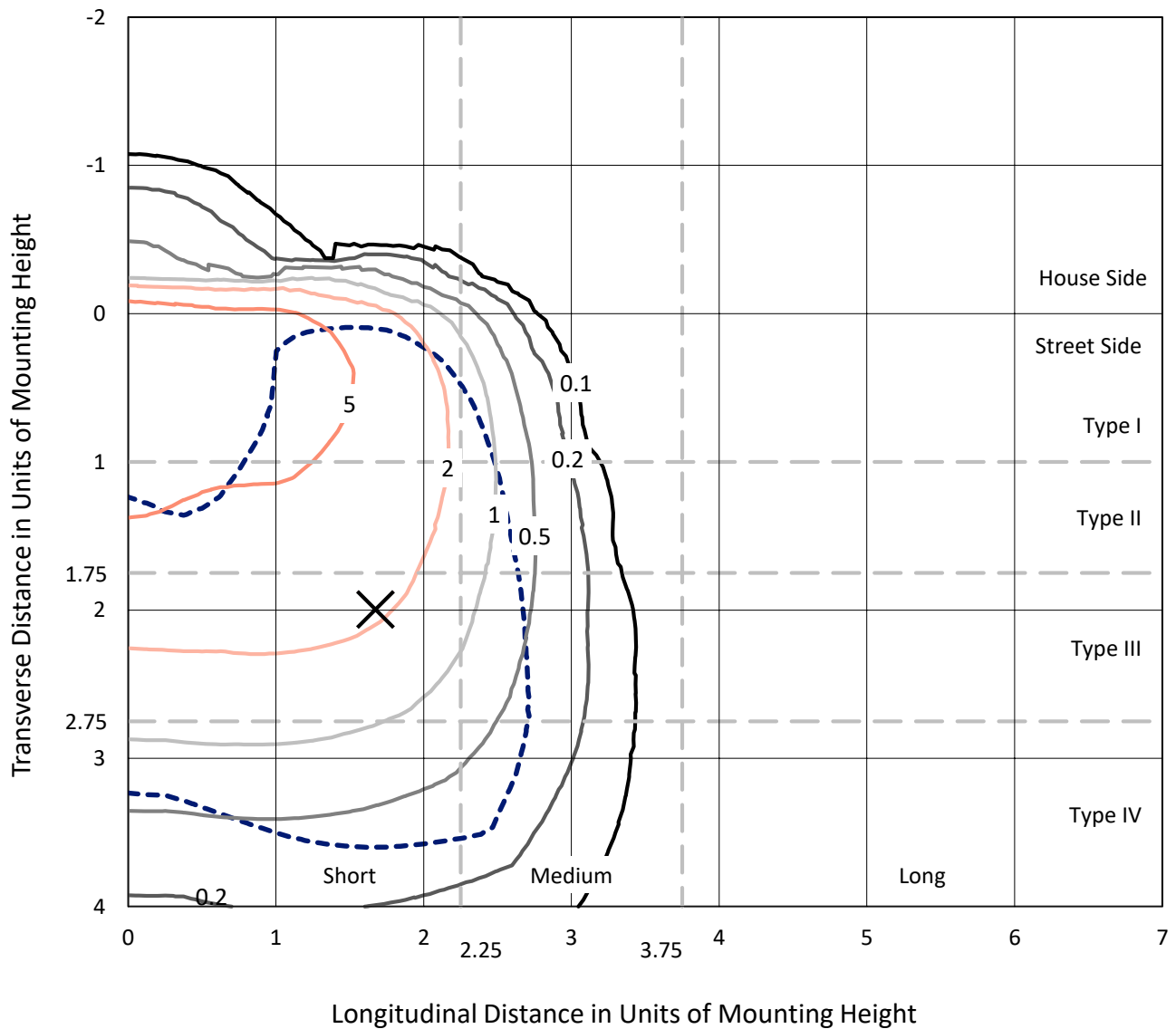


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Iso-Footcandle Lines of Horizontal Illumination

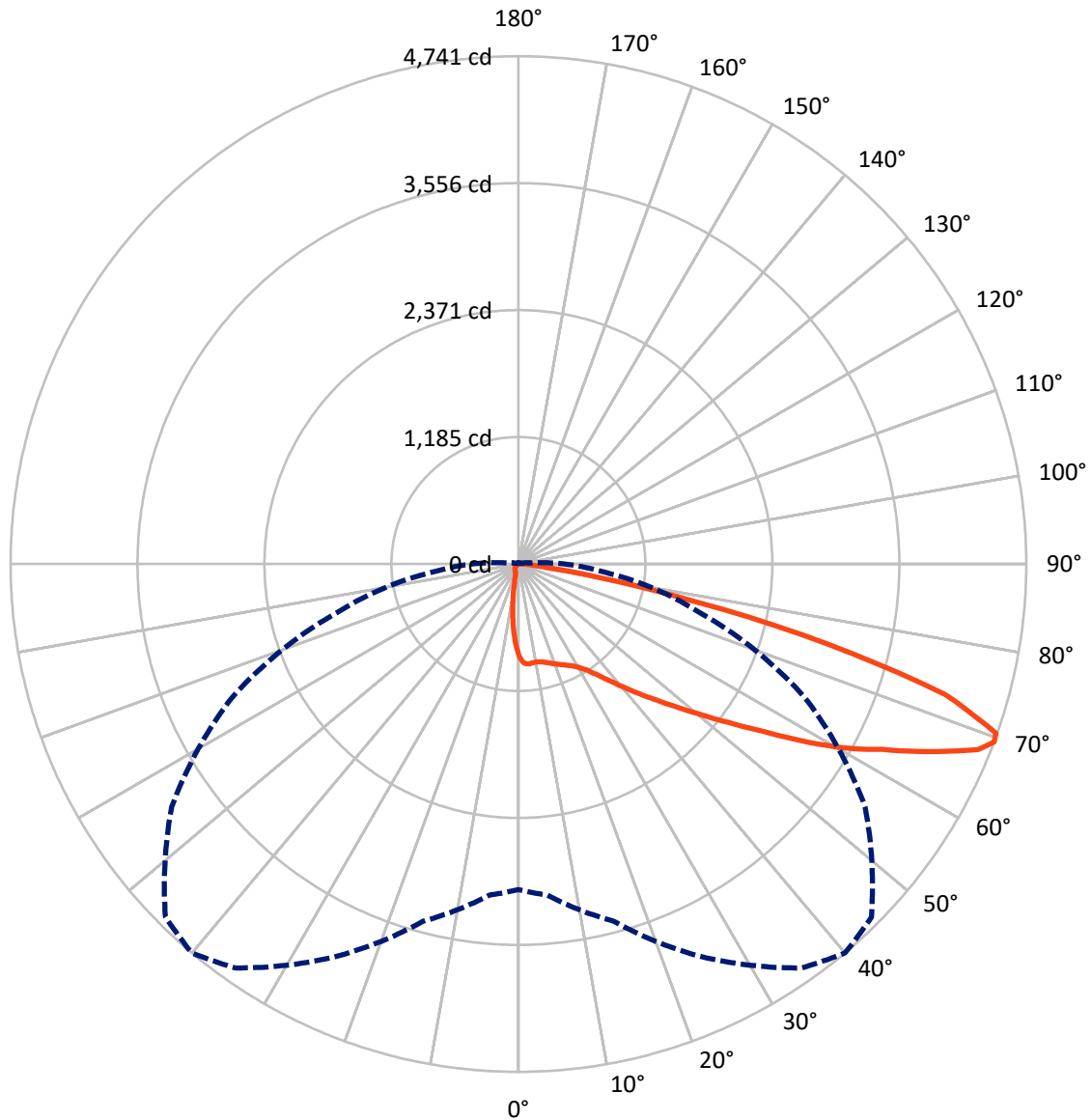
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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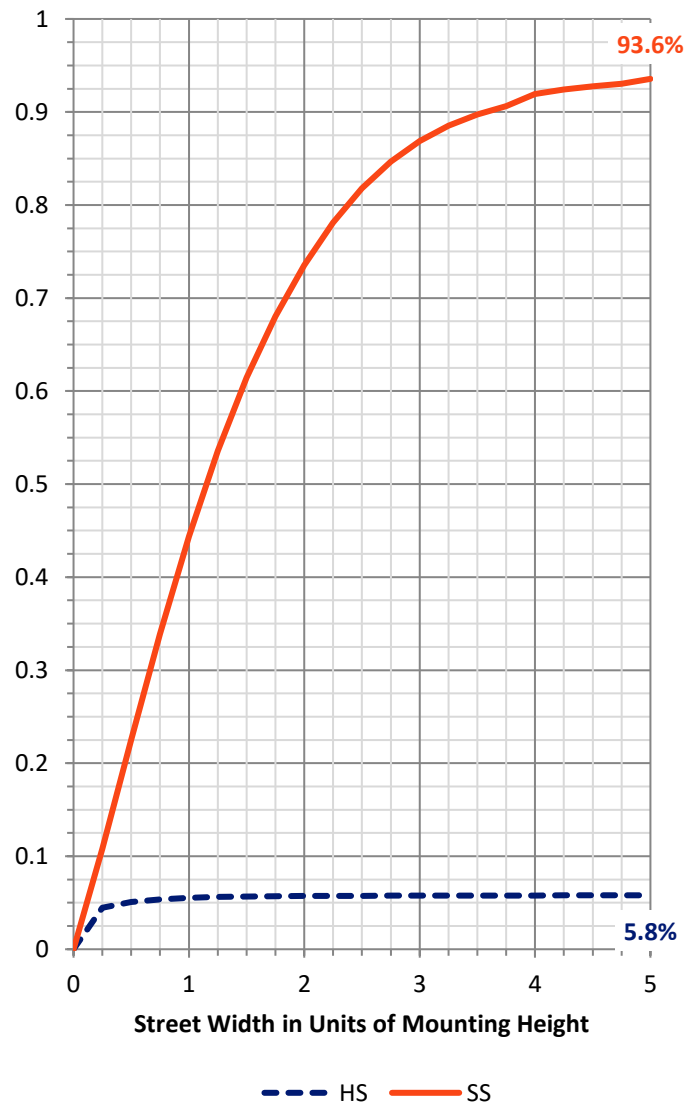
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	337.5	0.0	337.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	5432.5	0.0	5432.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	5770.1	0.0	5770.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	1.2
10°-20°	171.9	3.0
20°-30°	289.5	5.0
30°-40°	474.0	8.2
40°-50°	820.6	14.2
50°-60°	1292.6	22.4
60°-70°	1688.1	29.3
70°-80°	869.4	15.1
80°-90°	94.0	1.6
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°	5770.1	100.0
0°-180°	5770.1	100.0



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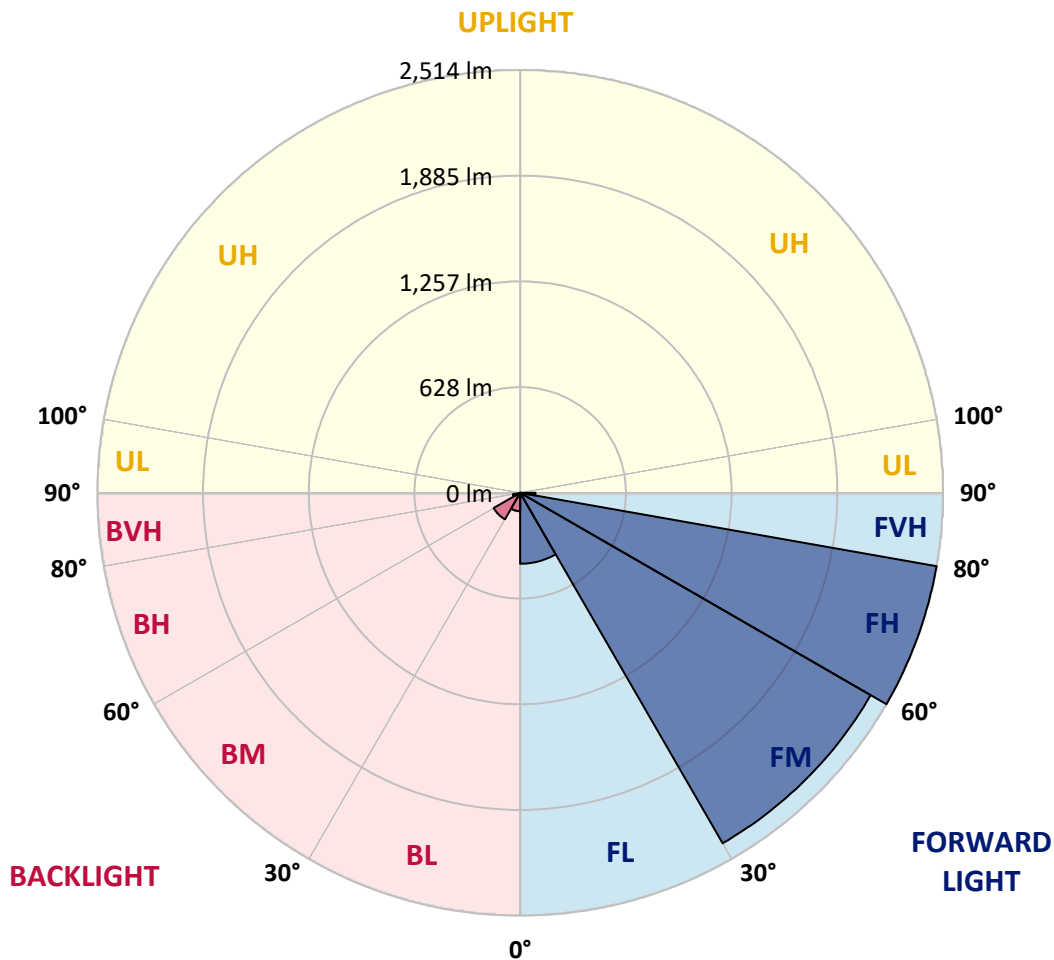
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.0	7.3			
FM	(30°-60°)	2405.8	41.7			
FH	(60°-80°)	2513.7	43.6			G2/5000
FVH	(80°-90°)	91.1	1.6			G1/100
BL	(0°-30°)	109.4	1.9	B0/110		
BM	(30°-60°)	181.4	3.1	B0/220		
BH	(60°-80°)	43.8	0.8	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	862.2	862.2	862.2	862.2	862.2	862.2	862.2	862.2	862.2	862.2	862.2
2.5°	946.5	941.5	938.3	934.1	929.0	924.5	922.9	910.2	898.1	881.6	862.8
5°	964.2	962.4	956.9	951.3	945.1	938.3	934.5	919.4	902.3	878.3	845.2
7.5°	965.8	963.7	956.9	949.2	940.7	932.5	926.0	910.8	895.0	870.6	830.6
10°	963.1	960.6	955.4	947.3	936.7	928.7	922.2	907.7	894.4	872.4	827.8
12.5°	960.0	957.6	955.2	951.0	941.8	936.3	930.7	917.0	905.0	886.4	837.7
15°	963.1	961.6	964.4	962.8	957.6	952.7	947.3	934.9	923.8	908.5	855.9
17.5°	976.1	976.1	984.7	985.7	980.9	974.0	966.1	953.8	944.5	931.5	877.6
20°	1006.7	1005.7	1016.6	1018.7	1007.0	996.4	984.7	969.6	962.4	954.1	898.8
22.5°	1059.2	1054.4	1061.0	1058.9	1035.8	1019.3	1004.9	986.3	982.7	978.9	922.5
25°	1127.6	1124.9	1129.3	1109.0	1068.5	1046.2	1029.0	1008.1	1008.1	1011.9	949.2
27.5°	1226.8	1216.6	1201.5	1165.7	1104.9	1076.3	1057.8	1035.6	1041.3	1055.5	984.7
30°	1328.6	1317.2	1282.5	1227.5	1149.2	1119.4	1097.6	1074.4	1088.0	1113.9	1032.2
32.5°	1428.8	1416.1	1367.0	1297.6	1212.7	1182.9	1162.0	1136.1	1159.3	1202.4	1101.5
35°	1526.0	1514.6	1457.9	1376.3	1297.2	1272.4	1253.2	1230.9	1260.5	1321.0	1199.3
37.5°	1635.3	1622.9	1553.8	1465.1	1400.0	1382.1	1367.9	1345.8	1397.3	1485.7	1335.7
40°	1769.5	1748.6	1655.4	1567.3	1518.8	1510.2	1500.6	1497.5	1577.6	1700.1	1517.3
42.5°	1923.5	1889.0	1761.9	1674.7	1649.3	1655.4	1653.2	1666.8	1803.2	1966.7	1738.6
45°	2077.2	2033.0	1880.4	1789.5	1792.8	1814.4	1828.0	1882.8	2085.9	2272.4	1976.6
47.5°	2207.8	2164.1	1994.1	1913.4	1954.6	1997.2	2033.7	2137.6	2376.3	2573.3	2161.7
50°	2319.5	2278.2	2114.7	2049.8	2142.5	2211.2	2270.2	2424.4	2688.9	2802.4	2291.5
52.5°	2410.7	2383.3	2239.7	2206.1	2357.2	2457.9	2544.4	2729.1	2965.8	2988.4	2392.5
55°	2499.8	2480.1	2374.0	2391.8	2609.2	2746.3	2855.9	3052.4	3204.2	3143.7	2489.5
57.5°	2602.1	2584.2	2527.2	2627.5	2940.7	3113.2	3232.6	3338.8	3414.0	3302.3	2580.8
60°	2706.5	2696.2	2697.5	2889.2	3321.3	3486.9	3552.7	3580.3	3620.1	3451.7	2586.0
62.5°	2806.0	2825.7	2892.4	3180.4	3685.7	3812.8	3846.1	3873.2	3826.5	3475.5	2389.1
65°	2974.6	3006.6	3165.6	3570.3	4086.5	4222.6	4256.9	4163.7	3859.1	3169.1	1943.4
67.5°	3057.1	3115.5	3399.2	3933.7	4475.3	4626.5	4613.8	4182.7	3463.1	2416.6	1247.0
69°	3040.0	3102.1	3453.2	4045.0	4604.4	4741.4	4660.8	3951.6	2950.4	1750.6	765.5
70°	2972.0	3034.8	3425.3	4040.8	4620.9	4729.4	4573.5	3666.2	2494.6	1280.1	478.7
72.5°	2481.8	2536.2	3041.0	3652.4	4256.9	4168.6	3826.2	2539.9	1215.4	348.6	107.8
75°	1527.7	1557.9	2182.1	2751.5	3215.2	2988.4	2549.2	1263.6	362.3	98.5	59.7
77.5°	807.1	821.0	1194.6	1621.8	2038.2	1686.4	1306.6	492.9	166.9	61.9	43.3
80°	477.1	487.4	643.2	741.6	882.0	736.7	522.5	302.5	119.6	38.7	38.4
82.5°	273.1	279.6	466.4	412.1	347.6	296.7	260.0	286.7	71.8	26.1	39.9
85°	100.3	101.7	262.5	313.6	206.8	123.0	129.1	237.7	19.3	16.4	31.3
87.5°	46.7	45.6	134.9	192.0	120.9	78.0	100.6	52.2	7.5	10.6	8.5
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°	862.2	862.2	862.2	862.2	862.2	862.2	862.2	862.2	862.2	862.2	862.2
2.5°	851.9	839.0	816.1	792.3	768.3	749.7	731.6	717.1	712.4	703.5	704.1
5°	825.7	802.4	754.2	705.4	654.7	612.7	573.3	541.3	525.9	510.1	510.1
7.5°	803.1	768.9	693.9	614.4	532.3	463.3	401.2	354.4	328.7	308.1	307.7
10°	794.5	748.4	643.2	529.6	415.2	321.1	247.4	200.0	175.4	159.7	159.0
12.5°	798.2	741.2	604.5	451.3	307.7	206.4	143.2	112.6	102.3	97.6	97.6
15°	809.3	739.1	565.8	374.8	217.4	129.1	95.1	86.9	86.1	86.1	86.1
17.5°	822.6	739.8	525.9	300.2	148.0	92.3	82.0	81.0	81.7	81.7	81.7
20°	836.3	740.2	482.8	231.1	104.5	80.4	77.3	77.0	77.7	77.7	78.0
22.5°	853.2	741.9	440.0	172.7	86.1	75.8	73.5	73.5	73.8	73.8	73.5
25°	872.4	745.4	395.3	128.1	78.6	72.9	70.7	70.3	70.7	70.3	70.1
27.5°	896.4	750.2	345.5	100.3	75.2	69.7	68.0	68.0	67.6	67.4	67.0
30°	926.6	755.7	289.6	85.2	71.8	67.0	65.2	64.9	64.6	63.9	63.9
32.5°	972.7	767.6	234.3	77.3	68.0	63.2	61.9	61.9	61.2	60.5	60.0
35°	1043.4	791.3	184.8	72.5	63.9	59.1	57.3	57.3	56.7	56.4	56.0
37.5°	1141.3	827.3	143.5	68.0	59.7	54.5	52.9	52.6	51.8	51.2	50.8
40°	1271.6	872.1	112.9	63.9	55.7	50.1	48.8	48.1	46.7	45.6	45.6
42.5°	1435.0	922.9	91.6	59.4	50.8	46.1	44.9	43.9	41.5	40.6	40.2
45°	1606.0	968.6	77.7	54.3	46.1	42.0	41.2	39.4	36.4	35.4	35.4
47.5°	1729.3	979.2	68.4	49.4	41.5	37.4	37.1	34.0	31.3	30.5	30.3
50°	1806.2	958.2	60.7	44.6	37.4	33.2	32.2	28.4	26.8	26.1	25.7
52.5°	1858.1	920.9	54.5	40.6	33.6	29.6	27.0	24.3	22.9	22.3	22.3
55°	1899.6	867.9	48.4	36.7	30.5	26.4	22.9	20.9	19.6	18.9	18.9
57.5°	1911.4	796.2	42.2	33.6	27.5	23.4	19.6	18.1	16.4	16.1	16.1
60°	1826.6	666.6	37.4	29.9	24.8	20.2	17.2	15.5	13.7	13.4	13.0
62.5°	1602.9	515.8	33.0	26.4	21.6	17.4	14.7	12.7	11.3	11.3	11.3
65°	1222.8	345.8	28.8	22.9	18.9	14.7	12.7	10.3	9.6	9.6	9.9
67.5°	731.8	188.3	24.8	19.6	16.1	12.3	10.6	9.0	8.5	9.0	9.0
69°	429.0	110.6	22.3	17.4	14.1	11.0	9.3	7.8	8.5	9.0	9.0
70°	264.8	74.5	20.7	15.8	12.7	9.9	8.5	7.5	8.3	8.5	8.5
72.5°	73.8	38.4	16.4	12.3	10.3	8.3	6.8	6.8	7.8	8.3	8.3
75°	48.1	28.4	12.7	9.3	7.8	6.5	5.7	6.5	7.5	7.8	7.8
77.5°	39.9	23.4	10.3	7.5	6.5	6.2	5.5	5.7	6.8	7.1	7.1
80°	36.4	16.4	8.3	6.8	5.7	5.5	5.1	4.9	6.2	6.5	6.5
82.5°	34.7	13.0	7.1	6.2	5.5	4.9	4.4	4.9	5.5	5.7	6.2
85°	21.6	8.5	6.5	5.7	4.9	4.4	4.4	4.4	5.1	5.5	5.5
87.5°	7.8	6.8	5.7	4.9	4.1	4.1	4.1	4.1	4.4	5.1	5.1
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)