

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: P199951

Luminaire Tested: **GPC-AF-01-LED-E1-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-SL2-7030-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5092.5 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

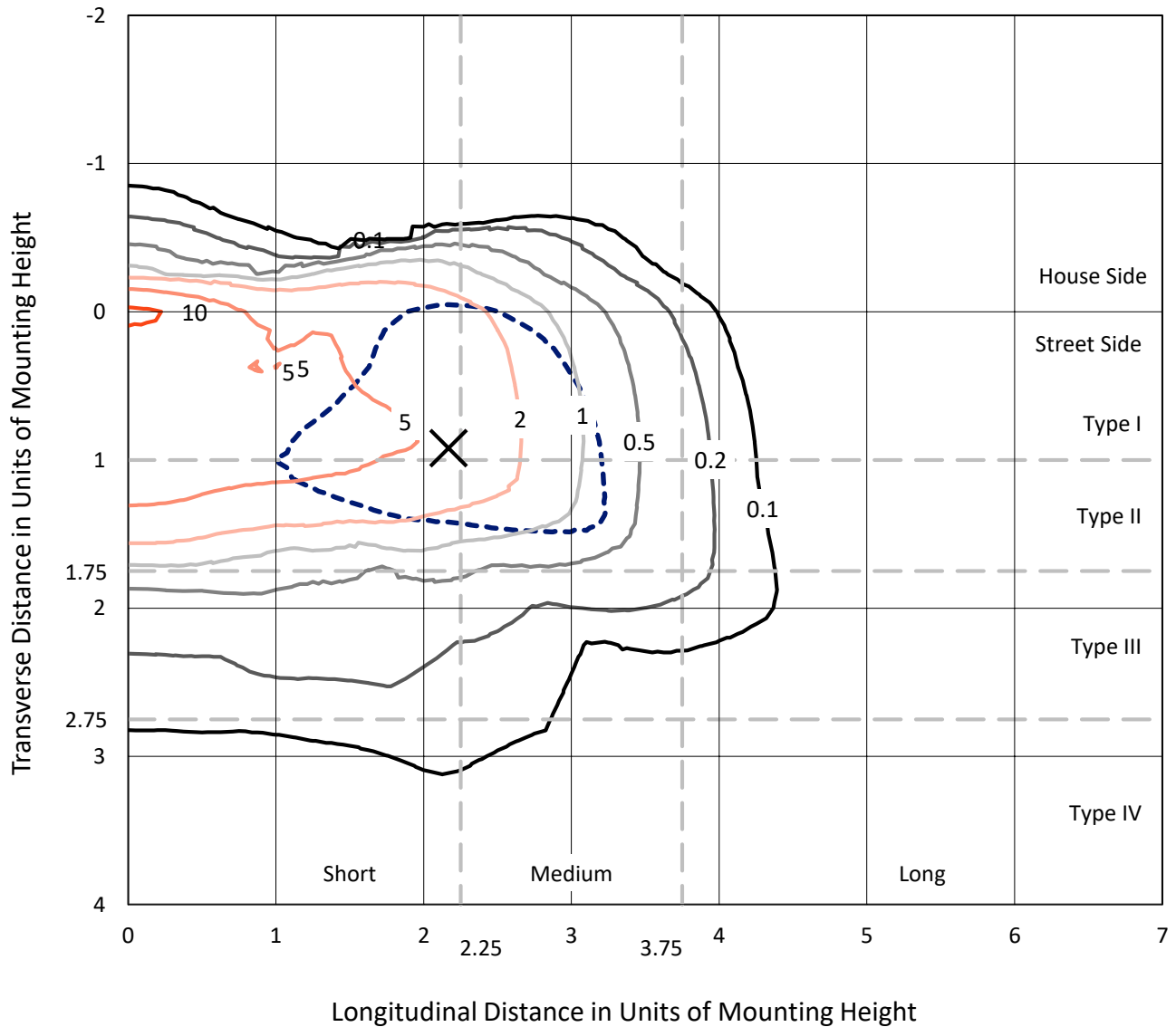
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

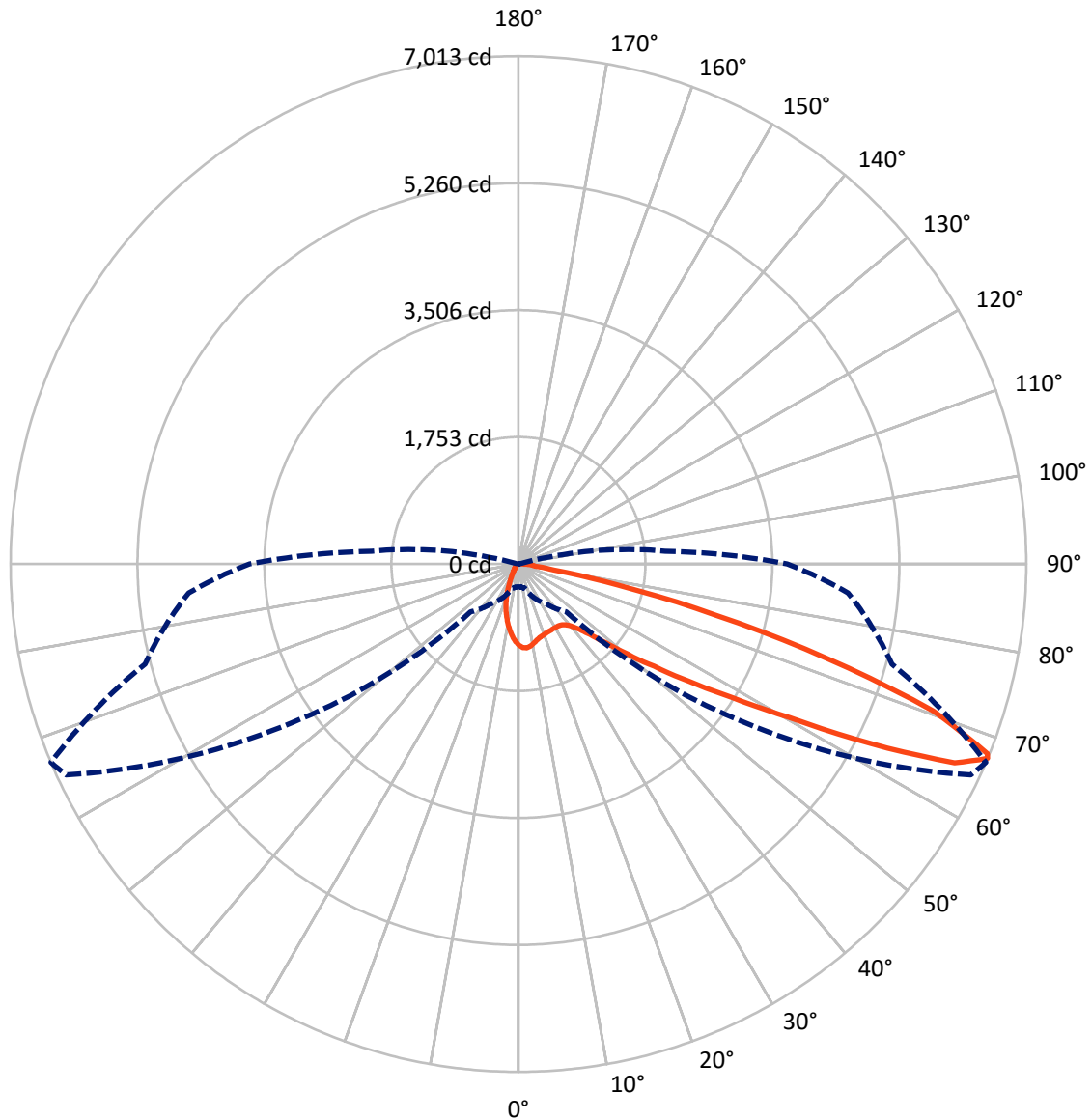
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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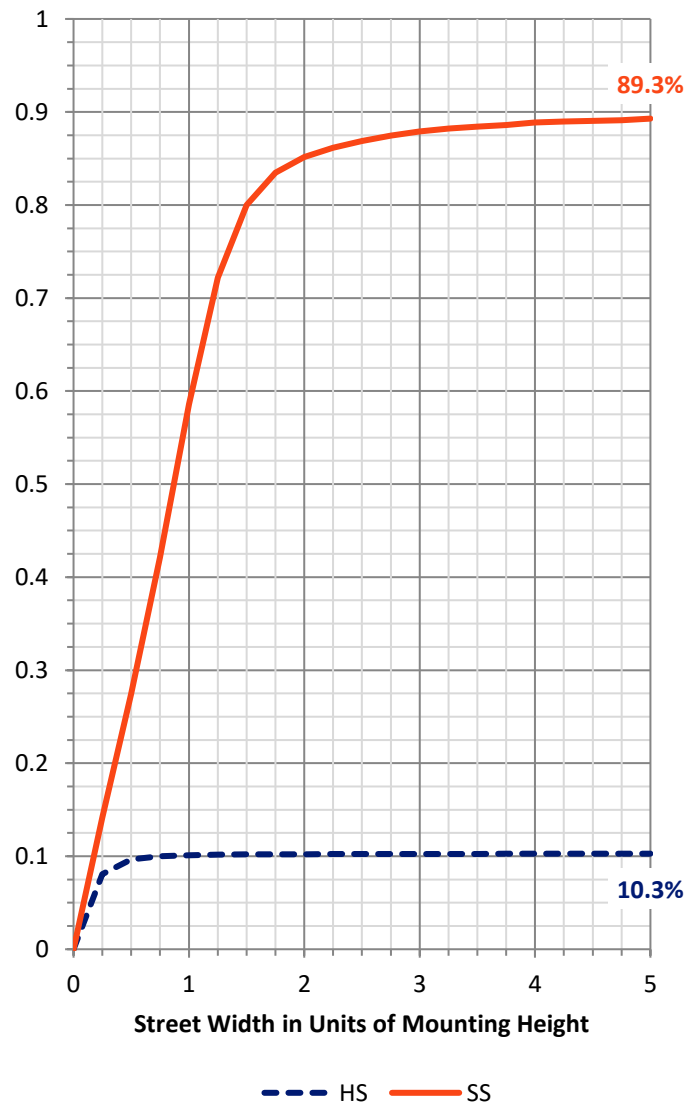
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	528.7	0.0	528.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4563.8	0.0	4563.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	5092.5	0.0	5092.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.8
10°-20°	194.5	3.8
20°-30°	282.8	5.6
30°-40°	441.2	8.7
40°-50°	781.5	15.3
50°-60°	1236.6	24.3
60°-70°	1416.4	27.8
70°-80°	587.5	11.5
80°-90°	60.7	1.2
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°	5092.5	100.0
0°-180°	5092.5	100.0



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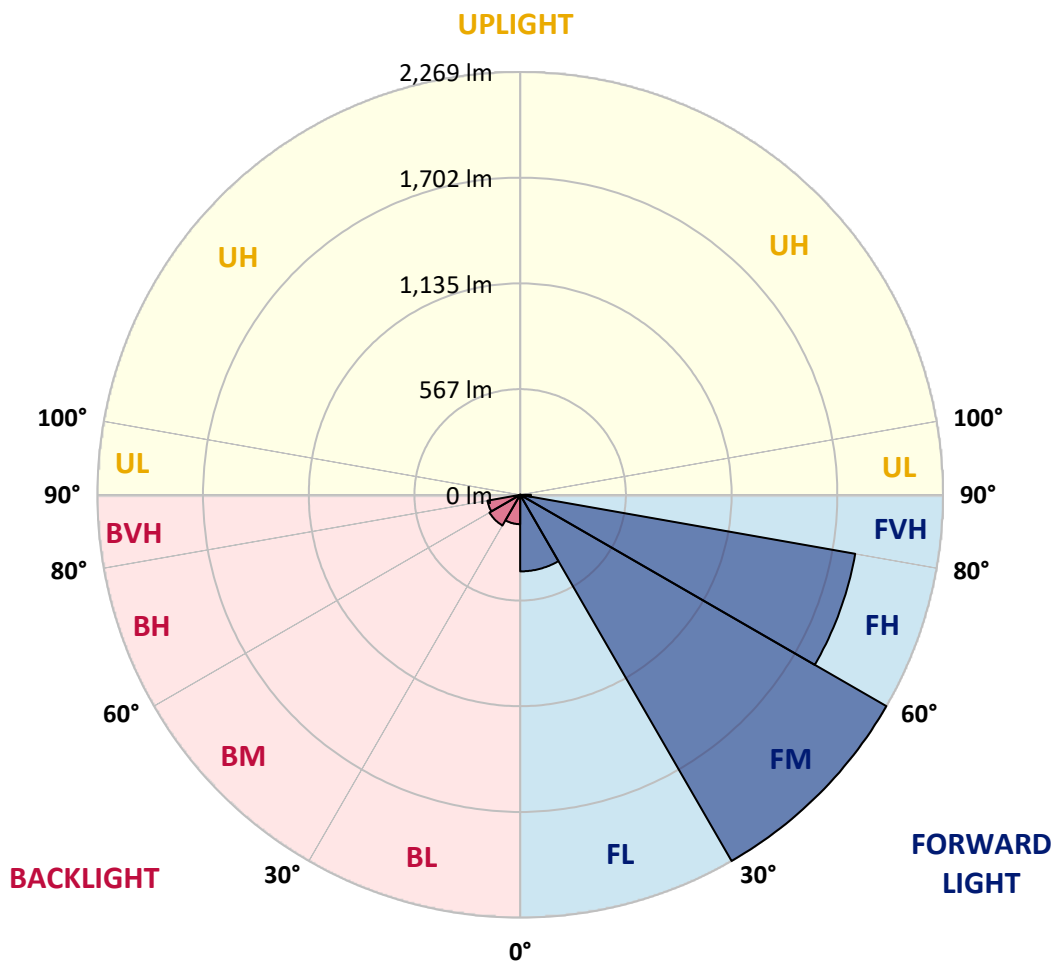
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.9	8.1			
FM (30°-60°)	2269.3	44.6			
FH (60°-80°)	1825.7	35.9			G2/5000
FVH (80°-90°)	58.0	1.1			G1/100
BL (0°-30°)	157.8	3.1	B1/500		
BM (30°-60°)	190.0	3.7	B0/220		
BH (60°-80°)	178.2	3.5	B1/500		G1/500
BVH (80°-90°)	2.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0
2.5°	1161.1	1163.5	1163.2	1165.0	1169.2	1169.4	1165.2	1157.3	1155.5	1145.0	1127.0
5°	1070.8	1077.7	1081.7	1098.7	1117.7	1140.6	1157.8	1164.0	1163.2	1155.8	1128.4
7.5°	967.7	974.6	979.3	999.2	1024.6	1063.6	1108.6	1145.4	1148.7	1156.6	1127.2
10°	899.1	900.3	906.9	925.9	952.3	992.4	1045.8	1110.3	1120.1	1149.5	1124.3
12.5°	842.7	843.6	852.2	872.7	901.0	941.3	997.4	1072.1	1087.1	1140.6	1123.7
15°	802.6	805.9	813.6	835.0	865.0	905.1	962.7	1043.8	1061.9	1137.4	1129.0
17.5°	789.2	792.7	795.2	810.6	837.9	877.2	936.3	1025.4	1045.8	1139.1	1139.5
20°	803.2	805.9	800.6	804.3	821.3	856.4	914.0	1009.7	1034.0	1141.2	1152.8
22.5°	855.2	856.4	841.9	824.9	821.9	841.2	896.5	997.2	1023.3	1146.9	1168.5
25°	944.3	942.3	918.5	881.9	847.5	838.6	886.1	989.5	1018.0	1152.8	1184.9
27.5°	1051.8	1054.8	1022.1	968.9	903.2	856.4	884.6	986.2	1015.6	1156.9	1199.1
30°	1182.5	1186.7	1149.2	1082.4	988.2	900.3	898.2	985.5	1014.0	1154.4	1200.3
32.5°	1315.9	1321.0	1291.6	1222.6	1101.7	973.9	929.1	992.1	1017.1	1145.0	1193.5
35°	1455.5	1462.7	1443.0	1383.9	1255.6	1080.3	983.5	1012.0	1031.0	1144.2	1186.7
37.5°	1648.2	1654.8	1618.0	1555.3	1441.7	1222.9	1070.8	1049.4	1063.9	1158.4	1188.4
40°	1936.1	1935.2	1840.2	1744.3	1646.4	1404.1	1193.5	1117.1	1124.6	1201.6	1210.5
42.5°	2249.7	2248.2	2107.8	1962.0	1873.7	1627.2	1354.9	1234.2	1229.1	1280.8	1267.4
45°	2491.5	2491.2	2376.6	2212.4	2147.3	1883.2	1563.3	1397.0	1389.2	1409.8	1372.7
47.5°	2594.6	2596.4	2538.7	2423.3	2450.5	2229.6	1826.2	1632.8	1621.2	1612.8	1556.5
50°	2514.4	2518.0	2522.8	2500.2	2673.0	2695.0	2178.7	1965.2	1959.6	1922.4	1834.3
52.5°	2252.5	2270.5	2326.3	2398.0	2750.3	3141.7	2731.6	2378.1	2347.8	2308.3	2211.2
55°	1811.1	1830.9	1936.9	2110.8	2635.4	3435.2	3506.2	2910.3	2859.9	2742.0	2601.8
57.5°	1198.6	1229.5	1383.3	1604.3	2301.4	3482.4	4279.1	3649.2	3473.3	3150.4	2992.4
60°	660.4	690.0	856.9	1057.2	1662.3	3249.1	4799.0	4611.0	4300.2	3606.9	3466.7
62.5°	406.7	422.8	546.0	732.1	996.9	2564.4	4906.5	5819.5	5459.9	4194.8	4039.8
65°	323.7	330.6	390.9	598.5	714.7	1525.3	4559.3	6741.0	6621.0	4906.5	4552.8
67°	314.2	317.0	345.5	513.8	673.7	935.0	3819.6	6891.0	7012.8	5337.2	4568.7
67.5°	316.3	319.4	346.4	490.3	672.5	859.4	3564.8	6831.9	6985.7	5371.3	4497.7
70°	305.1	314.2	396.5	490.1	639.5	714.1	2134.8	5919.3	6079.5	4990.9	3816.3
72.5°	108.1	108.7	171.4	396.5	695.3	721.7	1072.1	4339.4	4458.0	3817.8	2751.4
75°	64.1	54.6	57.1	112.9	664.6	701.0	618.4	2772.9	2817.1	2187.7	1393.4
77.5°	44.2	38.6	39.8	49.9	253.1	691.2	491.3	1445.9	1398.7	767.2	296.7
80°	25.2	22.3	23.7	43.7	92.1	644.8	463.4	586.4	499.9	130.1	82.0
82.5°	13.3	11.3	13.6	35.9	64.1	401.8	464.3	283.4	224.5	43.9	55.8
85°	4.7	3.9	6.5	24.7	42.7	123.3	430.4	238.1	187.2	21.5	42.5
87.5°	0.9	0.9	2.6	10.1	17.3	37.7	254.6	141.4	94.7	12.8	29.1
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°	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0	1123.0
2.5°	1119.6	1106.8	1089.6	1068.4	1043.5	1021.5	1005.1	988.2	984.7	978.8	977.9
5°	1112.1	1090.1	1047.4	998.3	946.0	898.8	860.5	826.3	811.2	798.1	796.6
7.5°	1101.2	1068.1	995.4	916.3	834.6	760.5	697.4	653.0	611.9	592.3	589.4
10°	1088.3	1041.1	936.9	827.2	714.3	609.5	515.9	437.6	390.0	361.7	358.3
12.5°	1076.4	1014.7	877.2	734.9	584.9	444.6	324.4	249.5	199.6	179.4	177.0
15°	1070.8	993.2	821.3	640.4	449.4	283.1	177.3	137.2	120.8	116.2	115.9
17.5°	1070.2	975.1	766.7	542.7	314.8	164.6	115.6	105.4	102.1	100.9	100.9
20°	1069.9	957.9	712.1	441.4	200.0	109.6	96.2	93.9	91.4	90.0	90.0
22.5°	1073.2	942.5	655.0	338.0	125.9	88.8	84.6	82.3	79.3	77.2	76.9
25°	1076.4	930.7	596.8	240.6	91.2	77.2	73.1	69.8	65.7	63.0	62.8
27.5°	1077.1	915.8	534.4	161.0	76.4	67.4	62.1	57.1	52.2	49.6	49.2
30°	1068.1	890.8	465.1	108.7	67.4	58.6	51.4	46.0	41.6	39.6	39.6
32.5°	1050.6	859.9	389.1	82.0	60.0	50.1	42.5	37.4	34.4	33.6	33.3
35°	1034.9	826.6	311.0	69.5	53.7	42.5	34.8	31.4	29.7	29.4	29.1
37.5°	1025.7	799.9	237.6	63.0	47.8	35.6	29.4	27.0	26.1	25.5	25.9
40°	1032.8	777.6	175.6	57.6	41.8	29.7	24.9	23.7	22.8	22.6	22.6
42.5°	1063.9	773.8	130.3	52.9	36.3	24.7	21.7	20.8	20.2	19.8	20.2
45°	1146.0	797.6	101.3	48.4	30.6	20.8	18.5	18.1	17.8	17.8	17.8
47.5°	1269.3	846.5	84.3	43.3	25.5	17.8	16.1	15.8	15.4	15.8	15.8
50°	1478.1	936.3	75.5	38.4	21.1	15.2	13.6	13.6	13.6	13.6	13.9
52.5°	1795.5	1112.7	69.5	33.3	17.3	12.8	11.6	11.6	11.9	11.9	12.1
55°	2149.3	1346.7	64.1	28.2	14.5	10.7	9.5	9.9	10.1	10.4	10.4
57.5°	2533.1	1606.1	59.6	23.2	12.4	8.6	7.9	8.3	8.6	9.2	9.2
60°	2996.2	1886.8	53.2	18.1	10.4	6.9	6.2	6.9	7.7	8.3	8.6
62.5°	3504.7	2158.3	44.9	14.2	8.6	5.4	5.0	6.2	7.4	7.9	8.3
65°	3852.3	2243.5	34.4	11.6	6.5	3.9	4.2	5.7	7.1	7.9	7.9
67°	3711.5	2034.1	28.2	9.9	5.4	2.9	3.9	5.7	7.1	7.7	7.9
67.5°	3613.7	1952.1	27.0	9.5	5.0	2.9	3.9	5.7	7.1	7.9	7.9
70°	2940.3	1466.5	22.6	7.1	4.2	2.6	3.3	5.4	6.9	7.7	7.7
72.5°	2043.0	904.2	20.2	5.0	3.6	2.4	2.9	5.0	6.5	7.4	7.7
75°	971.4	327.3	17.3	3.9	3.3	2.0	2.6	5.0	6.5	7.4	7.4
77.5°	198.1	76.1	13.9	3.3	2.6	2.0	2.4	4.7	6.2	7.1	7.1
80°	65.0	29.4	10.4	2.9	2.6	2.0	2.4	4.5	6.2	6.9	7.1
82.5°	47.0	14.9	6.9	2.9	2.6	2.0	2.0	4.5	5.9	6.9	6.9
85°	35.9	10.4	4.5	2.9	2.6	2.0	2.0	4.2	5.7	6.5	6.5
87.5°	23.7	4.2	3.6	2.9	2.6	2.0	2.0	4.2	5.4	6.2	6.5
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)