

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: P199925

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199925
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-01-LED-E1-AFL-7030-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE 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: 4065.5 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 44
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

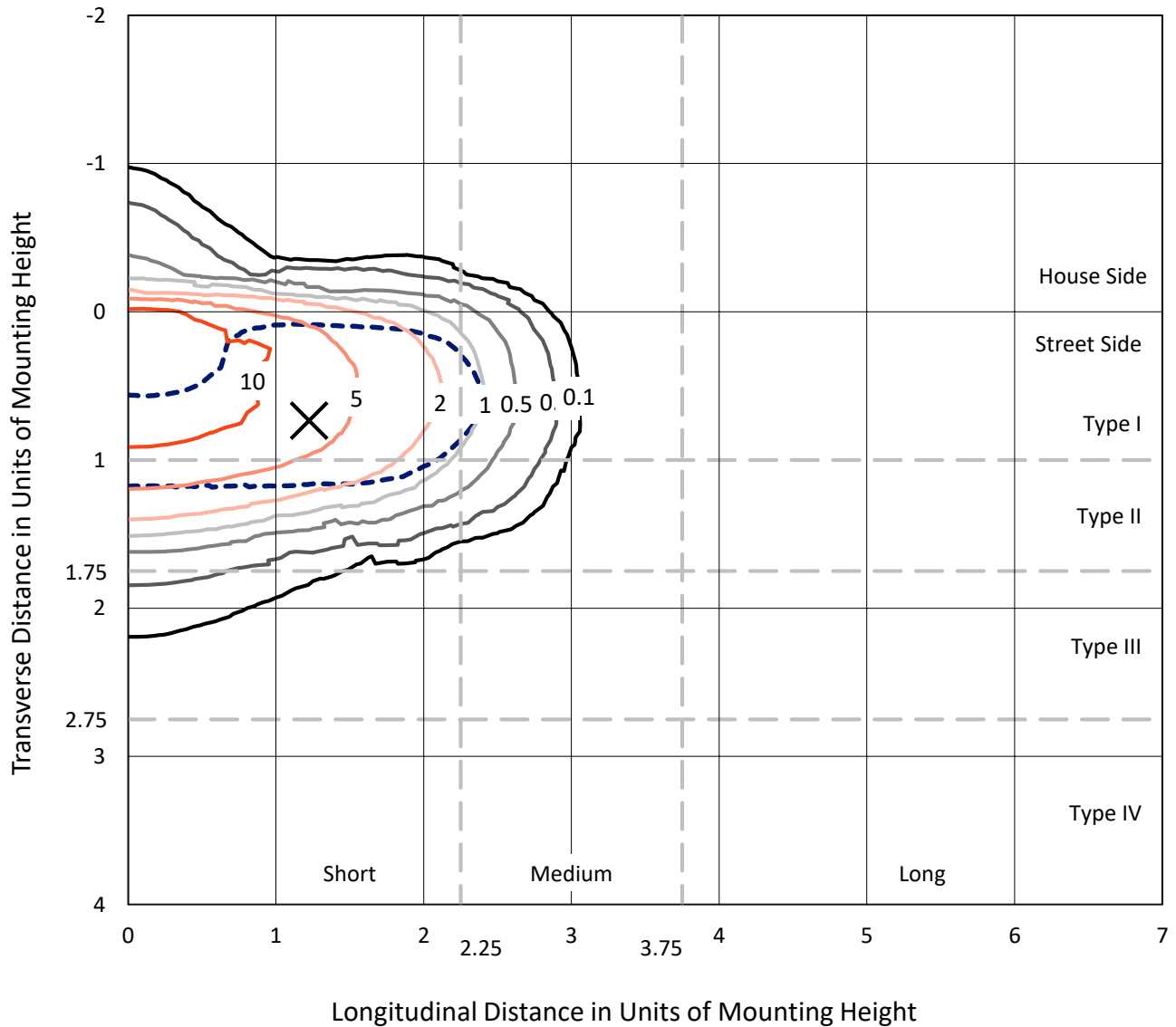


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

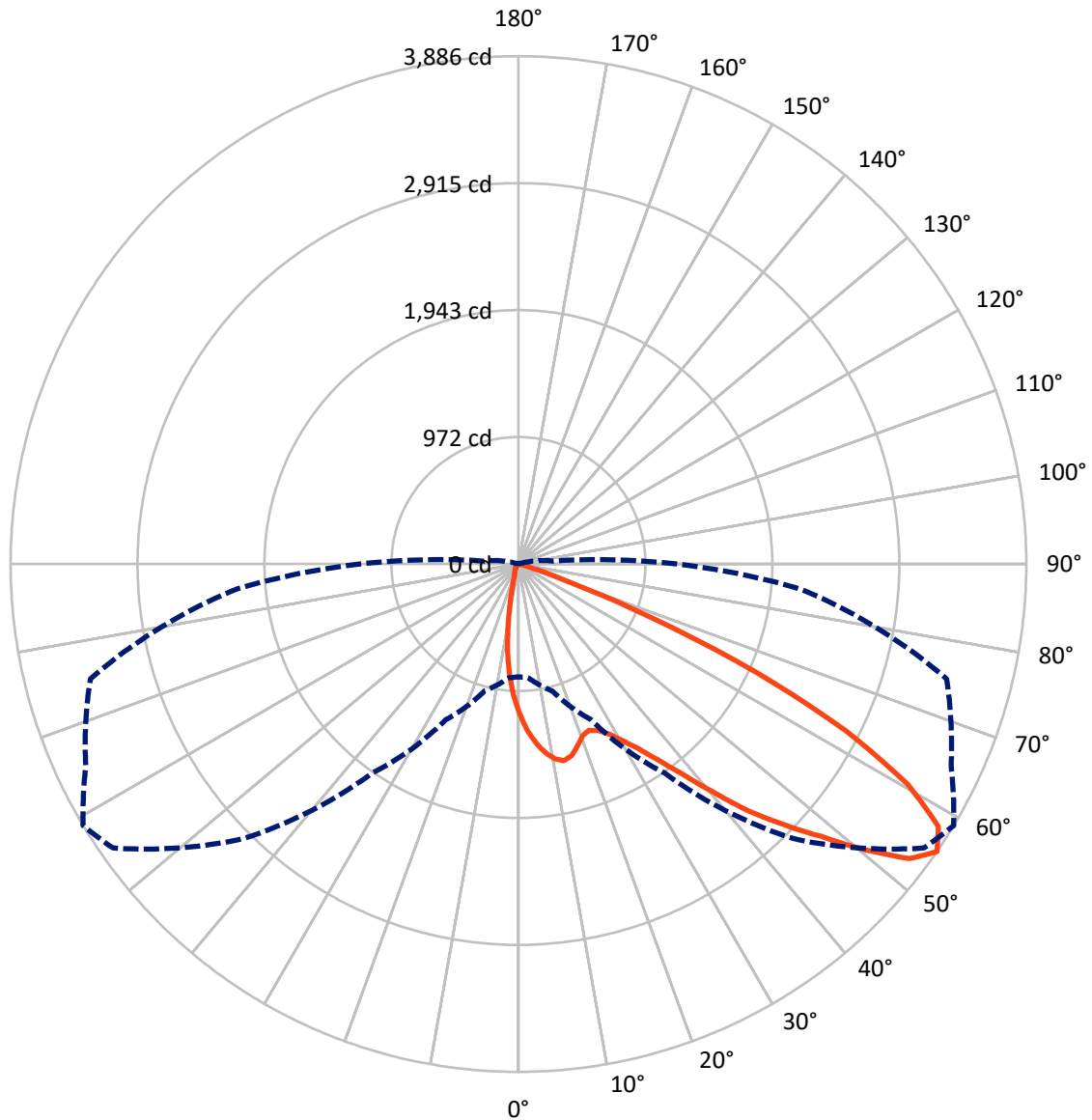


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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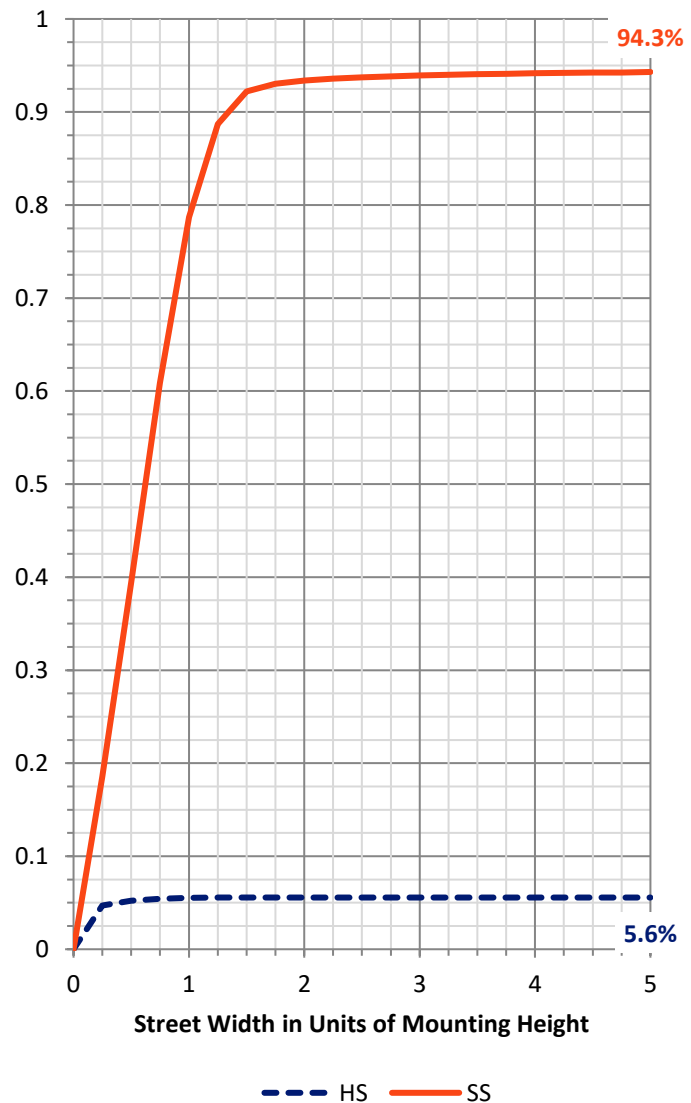
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	227.1	0.0	227.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3838.4	0.0	3838.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	4065.5	0.0	4065.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	2.4
10°-20°	229.5	5.6
20°-30°	390.5	9.6
30°-40°	671.6	16.5
40°-50°	1036.9	25.5
50°-60°	1042.5	25.6
60°-70°	534.6	13.1
70°-80°	57.9	1.4
80°-90°	6.1	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°	4065.5	100.0
0°-180°	4065.5	100.0

Coefficient of Utilization



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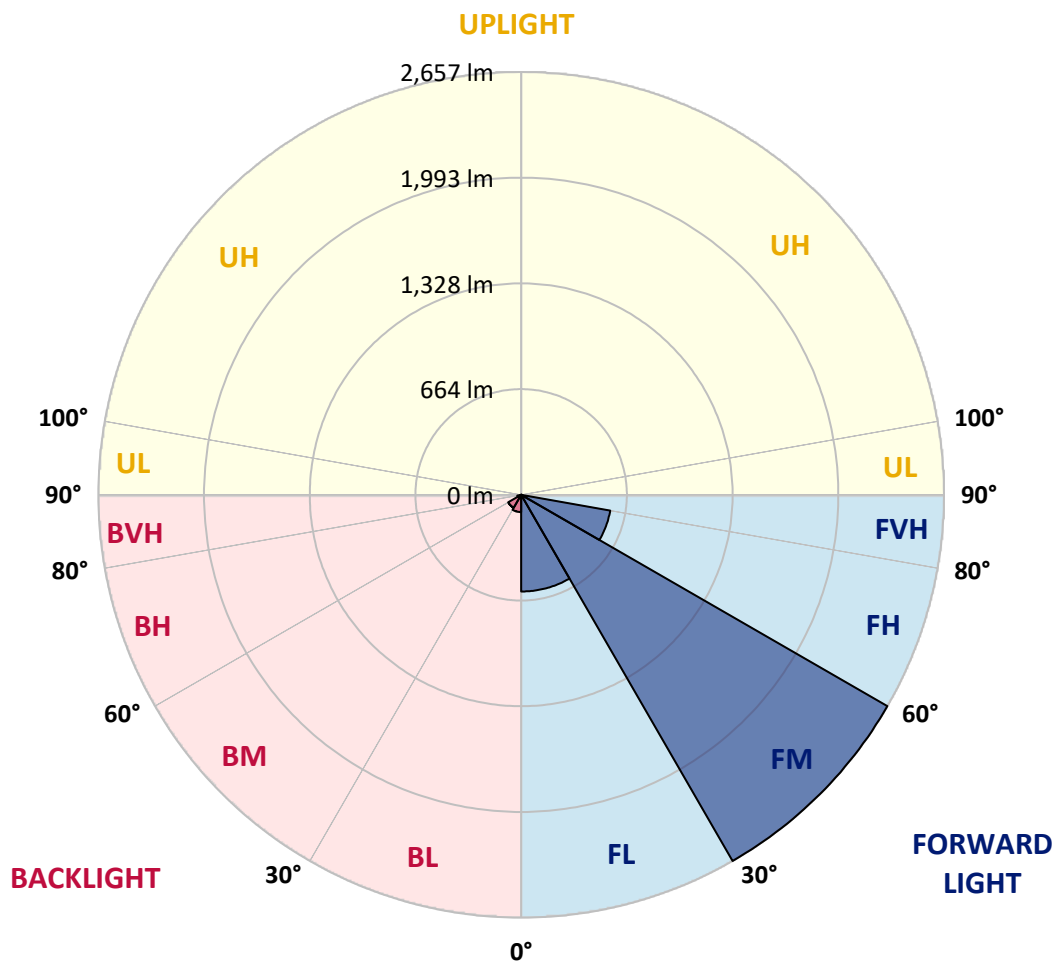
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	607.5	14.9			
FM	(30°-60°)	2656.8	65.3			
FH	(60°-80°)	568.2	14.0			G0/660
FVH	(80°-90°)	5.9	0.1			G0/10
BL	(0°-30°)	108.4	2.7	B0/110		
BM	(30°-60°)	94.2	2.3	B0/220		
BH	(60°-80°)	24.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1354.2	1339.7	1335.3	1332.5	1319.3	1302.8	1280.2	1269.7	1248.1	1213.4	1170.6
5°	1478.2	1475.5	1465.9	1460.7	1446.5	1423.0	1387.0	1369.7	1335.3	1276.9	1200.3
7.5°	1423.9	1440.5	1453.7	1475.8	1503.6	1502.7	1472.4	1454.5	1416.0	1338.8	1233.4
10°	1214.5	1228.0	1249.5	1299.6	1401.9	1492.1	1527.6	1514.7	1484.0	1395.7	1265.3
12.5°	1173.5	1172.1	1175.8	1190.5	1244.0	1372.7	1518.2	1544.4	1538.2	1447.6	1295.6
15°	1195.3	1193.6	1193.1	1198.1	1211.1	1265.3	1447.9	1523.1	1571.2	1495.9	1321.3
17.5°	1256.5	1249.3	1245.4	1241.4	1237.5	1250.9	1363.4	1463.3	1576.3	1538.2	1342.6
20°	1361.4	1349.4	1335.1	1312.1	1290.6	1283.8	1327.9	1401.9	1558.2	1570.3	1356.6
22.5°	1493.0	1477.7	1453.2	1411.2	1367.3	1341.9	1345.5	1382.4	1531.4	1605.3	1363.0
25°	1641.1	1621.4	1588.7	1530.5	1465.9	1420.8	1397.3	1410.3	1519.1	1646.3	1370.4
27.5°	1799.7	1777.8	1735.1	1655.8	1582.5	1521.6	1473.6	1471.9	1540.1	1700.1	1382.4
30°	1956.9	1953.4	1897.9	1813.8	1716.9	1642.7	1573.7	1564.8	1598.4	1774.5	1406.1
32.5°	2166.5	2141.3	2073.2	1986.8	1875.0	1786.0	1704.2	1683.5	1687.8	1861.1	1442.9
35°	2430.9	2403.2	2307.3	2188.1	2063.2	1958.0	1867.6	1839.5	1828.9	2002.8	1504.8
37.5°	2601.7	2601.3	2541.1	2419.6	2285.4	2169.7	2071.2	2038.3	2017.0	2174.2	1600.7
40°	2606.3	2617.6	2625.5	2624.3	2528.8	2422.1	2334.7	2294.1	2244.5	2403.0	1724.7
42.5°	2466.4	2495.5	2565.3	2683.7	2740.4	2697.9	2624.3	2584.4	2510.6	2648.0	1876.0
45°	2277.4	2297.5	2419.6	2637.9	2855.1	2971.5	2915.2	2844.0	2746.7	2903.6	2011.5
47.5°	2192.7	2196.2	2275.3	2514.9	2863.6	3195.5	3229.6	3113.7	2961.2	3109.4	2117.6
50°	1939.6	1946.0	2054.9	2301.5	2762.5	3301.4	3545.4	3435.4	3195.1	3268.0	2156.2
52.5°	1461.9	1470.9	1609.2	1951.1	2484.1	3256.3	3771.3	3744.8	3451.3	3345.5	2158.3
55°	862.5	874.5	1006.5	1313.3	1953.9	2969.3	3788.1	3886.1	3653.5	3391.3	2155.0
57.5°	402.8	411.3	486.7	676.6	1215.2	2346.7	3535.3	3789.1	3765.1	3415.6	2178.7
60°	214.0	216.5	234.7	293.0	549.1	1488.0	3041.8	3421.6	3663.4	3449.1	2207.8
62.5°	163.7	164.3	163.4	170.3	230.7	660.5	2299.2	2812.9	3253.8	3423.9	2175.6
65°	141.8	143.0	136.2	134.6	148.0	235.6	1365.8	2005.0	2556.8	3084.0	1956.7
67.5°	127.2	127.7	119.5	112.5	114.9	127.4	538.8	1097.6	1692.4	2260.6	1418.1
70°	117.1	116.6	107.7	96.7	93.5	87.1	171.3	402.4	808.7	1146.3	659.6
72.5°	103.7	103.9	99.5	85.2	77.7	60.9	79.4	117.4	241.4	312.4	154.5
75°	91.9	90.6	85.4	76.3	64.0	40.1	39.4	52.3	74.4	73.9	33.4
77.5°	66.4	65.2	66.9	62.6	49.1	25.9	19.6	25.2	30.3	29.3	9.4
80°	48.7	48.0	43.1	52.1	43.3	17.7	12.2	13.4	15.7	13.2	2.8
82.5°	33.4	33.1	30.5	28.9	24.7	10.8	7.6	8.4	10.1	7.4	1.4
85°	5.3	6.0	22.1	17.5	14.6	4.8	5.3	5.8	6.7	4.1	0.4
87.5°	0.0	0.0	10.3	9.1	2.8	1.9	3.2	3.4	3.4	2.1	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°	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1148.8	1124.8	1080.3	1034.5	992.1	941.5	906.7	880.5	850.2	842.2	859.9
5°	1156.6	1111.2	1015.8	912.0	814.3	706.2	623.4	557.8	498.6	478.4	496.7
7.5°	1169.2	1101.8	945.9	774.9	605.1	436.2	320.5	244.5	196.0	181.6	189.3
10°	1181.6	1087.7	865.2	612.7	380.6	212.3	138.2	110.4	100.1	97.9	99.1
12.5°	1191.9	1069.1	766.6	435.7	203.4	113.7	90.4	85.9	84.4	84.4	84.9
15°	1198.1	1040.8	649.8	277.1	117.1	85.9	78.8	77.5	77.5	77.7	78.2
17.5°	1197.5	1004.7	521.8	167.7	87.6	76.1	72.0	70.8	70.6	71.0	71.2
20°	1188.6	957.7	393.5	110.6	76.3	69.4	65.2	63.2	62.9	63.4	63.8
22.5°	1171.8	899.7	281.5	85.2	68.9	62.9	57.8	55.9	55.9	56.4	56.9
25°	1151.4	828.7	192.4	72.2	62.2	55.9	51.2	49.3	49.9	51.2	51.4
27.5°	1125.9	748.8	130.8	62.0	54.0	48.9	45.4	44.1	45.4	47.0	47.5
30°	1104.2	665.5	93.3	53.5	45.8	42.2	40.1	40.1	41.7	44.9	45.6
32.5°	1087.3	585.0	72.0	47.3	39.9	36.7	35.5	36.7	39.4	42.5	43.1
35°	1085.2	518.4	60.9	42.2	35.5	32.3	31.9	34.1	36.7	39.2	39.6
37.5°	1101.8	457.0	54.9	38.1	31.6	28.9	28.3	30.9	33.6	36.5	37.1
40°	1133.1	408.8	50.6	34.3	28.5	25.4	24.5	26.4	29.9	33.9	34.8
42.5°	1174.0	369.0	45.8	30.5	25.4	21.1	19.8	22.1	25.9	29.9	31.1
45°	1212.8	334.7	40.5	26.1	21.3	16.3	15.9	18.7	20.6	24.7	25.6
47.5°	1234.2	304.5	35.9	21.3	16.6	13.2	13.2	13.8	15.9	20.6	21.7
50°	1227.0	280.2	31.1	15.9	11.5	10.1	10.1	9.9	12.7	16.6	17.3
52.5°	1212.6	266.3	26.9	12.2	7.8	7.2	6.4	7.2	8.8	10.6	10.8
55°	1210.4	263.9	22.5	9.9	5.6	4.8	3.6	3.6	3.6	3.4	2.8
57.5°	1227.2	267.8	18.9	7.8	4.1	3.2	1.9	0.0	0.0	0.0	0.0
60°	1244.5	271.8	16.3	5.6	2.8	1.6	0.2	0.0	0.0	0.0	0.0
62.5°	1215.7	262.8	13.6	3.4	2.1	0.8	0.0	0.0	0.0	0.0	0.0
65°	1067.9	223.7	10.8	2.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	759.6	149.6	7.2	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	346.7	62.6	4.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	74.2	19.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.1	14.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.8	22.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.8	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.4	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)