

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: P200567

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200567
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-8030-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4246 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G0

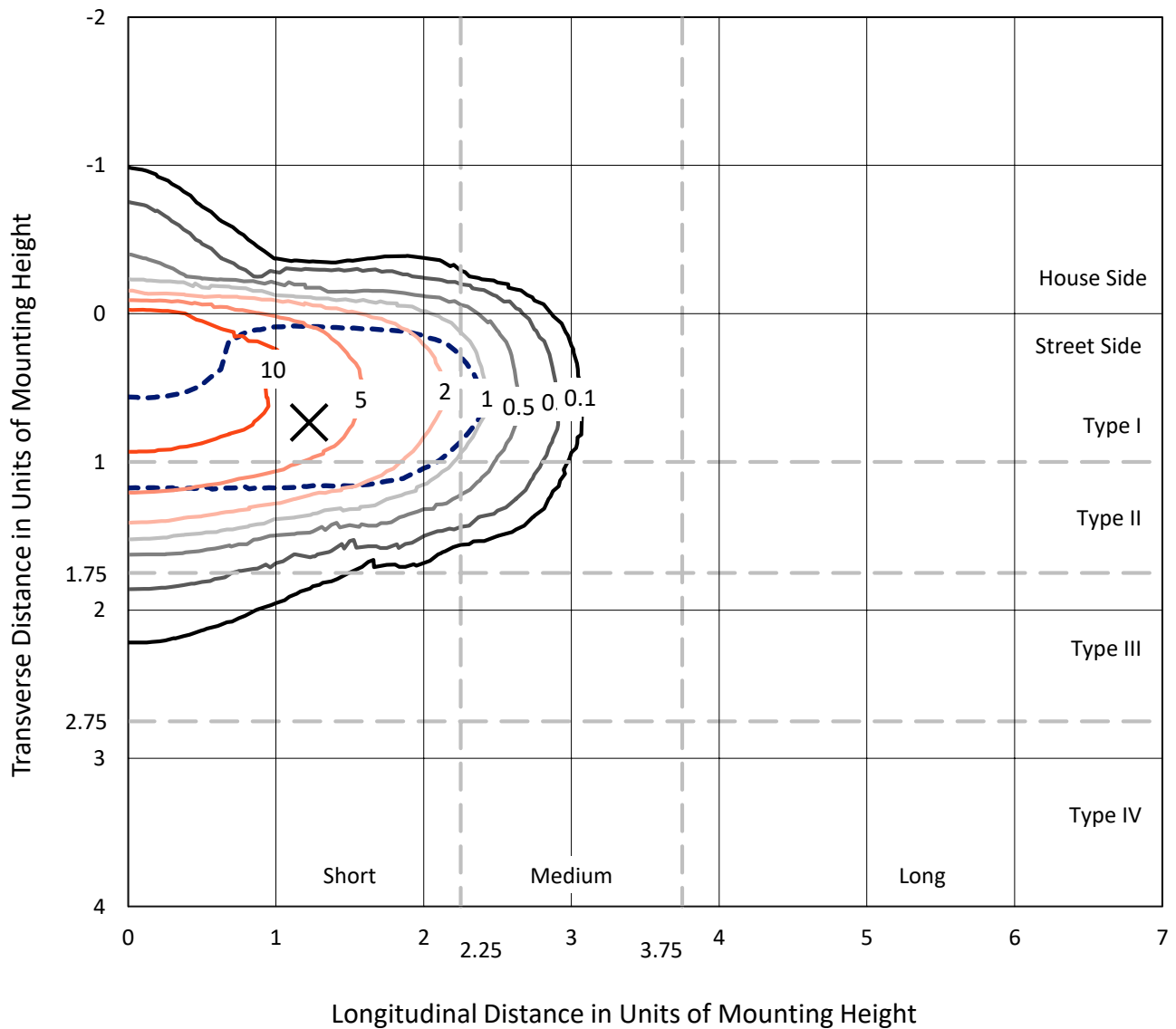
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

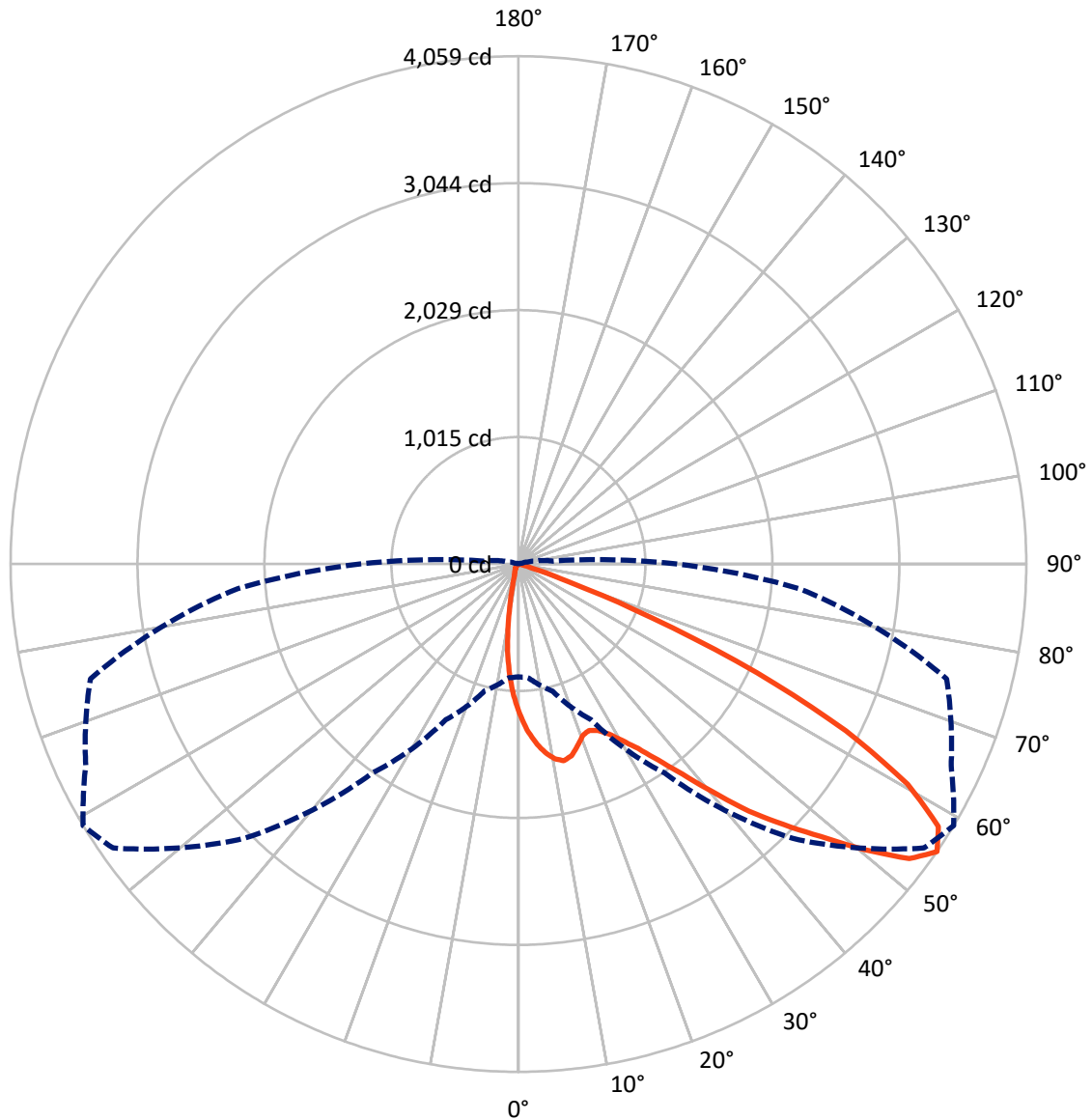
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 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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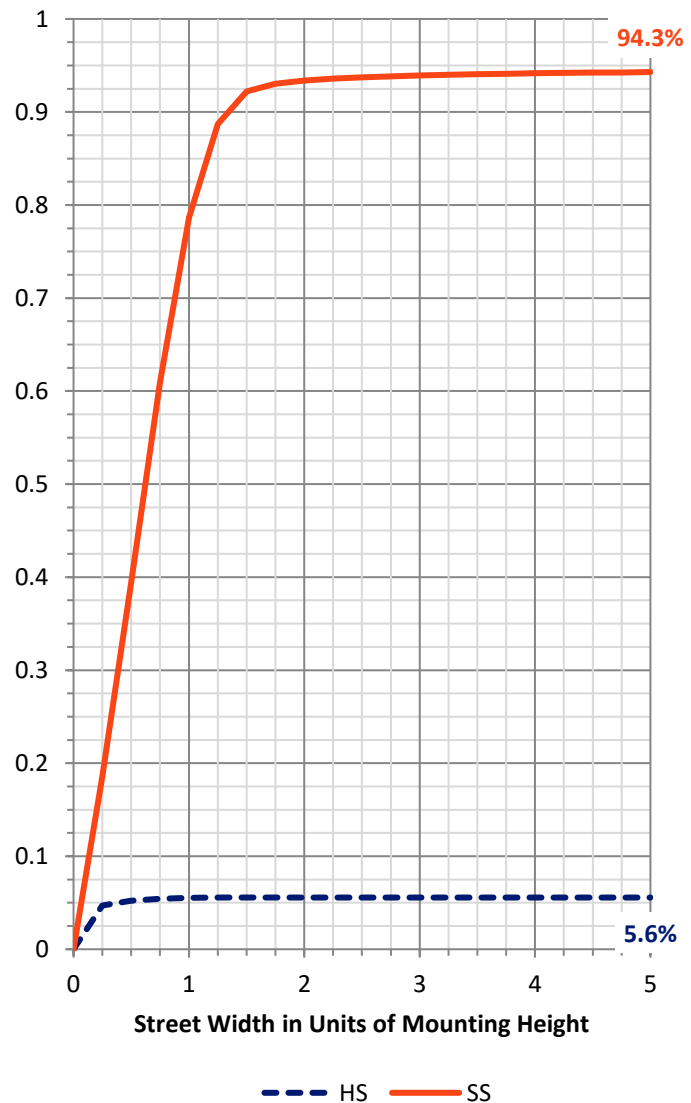
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	237.2	0.0	237.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	4008.8	0.0	4008.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	4246.0	0.0	4246.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	2.4
10°-20°	239.7	5.6
20°-30°	407.9	9.6
30°-40°	701.5	16.5
40°-50°	1083.0	25.5
50°-60°	1088.7	25.6
60°-70°	558.3	13.1
70°-80°	60.5	1.4
80°-90°	6.3	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°	4246.0	100.0
0°-180°	4246.0	100.0



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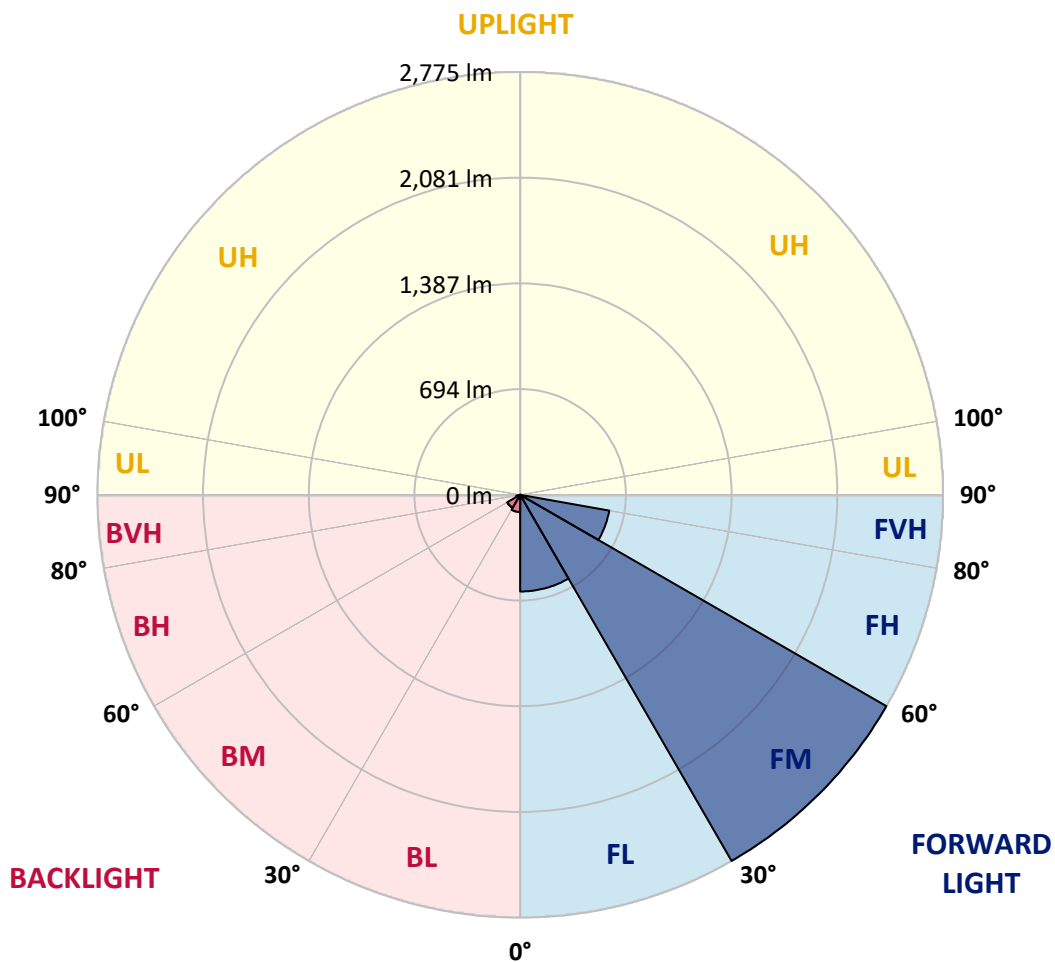
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.5	14.9			
FM	(30°-60°)	2774.7	65.3			
FH	(60°-80°)	593.4	14.0			G0/660
FVH	(80°-90°)	6.2	0.1			G0/10
BL	(0°-30°)	113.2	2.7	B1/500		
BM	(30°-60°)	98.4	2.3	B0/220		
BH	(60°-80°)	25.4	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: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2
2.5°	1414.2	1399.2	1394.7	1391.7	1377.9	1360.6	1337.1	1326.0	1303.5	1267.1	1222.5
5°	1543.8	1541.0	1531.0	1525.5	1510.7	1486.1	1448.6	1430.5	1394.7	1333.6	1253.6
7.5°	1487.2	1504.4	1518.2	1541.3	1570.3	1569.3	1537.8	1519.0	1478.9	1398.2	1288.2
10°	1268.4	1282.4	1305.0	1357.4	1464.1	1558.3	1595.4	1581.9	1549.8	1457.6	1321.5
12.5°	1225.6	1224.0	1228.1	1243.3	1299.2	1433.5	1585.6	1612.9	1606.4	1512.0	1353.1
15°	1248.4	1246.6	1246.1	1251.4	1264.9	1321.5	1512.2	1590.6	1641.0	1562.3	1379.9
17.5°	1312.3	1304.7	1300.7	1296.5	1292.5	1306.5	1424.0	1528.2	1646.3	1606.4	1402.2
20°	1421.8	1409.2	1394.4	1370.4	1347.8	1340.8	1386.9	1464.1	1627.5	1640.0	1416.7
22.5°	1559.3	1543.3	1517.7	1473.9	1428.0	1401.5	1405.2	1443.8	1599.4	1676.6	1423.5
25°	1713.9	1693.4	1659.3	1598.4	1531.0	1483.9	1459.3	1472.9	1586.6	1719.4	1431.3
27.5°	1879.5	1856.7	1812.1	1729.2	1652.8	1589.1	1539.0	1537.3	1608.4	1775.6	1443.8
30°	2043.7	2040.2	1982.0	1894.3	1793.1	1715.7	1643.5	1634.2	1669.3	1853.2	1468.6
32.5°	2262.7	2236.4	2165.2	2075.0	1958.2	1865.3	1779.8	1758.3	1762.8	1943.7	1506.9
35°	2538.8	2510.0	2409.8	2285.2	2154.7	2044.9	1950.5	1921.1	1910.1	2091.8	1571.6
37.5°	2717.2	2716.7	2653.8	2527.0	2387.0	2265.9	2163.2	2128.9	2106.6	2270.7	1671.8
40°	2722.0	2733.8	2742.0	2740.8	2641.0	2529.5	2438.3	2396.0	2344.1	2509.7	1801.4
42.5°	2575.9	2606.2	2679.1	2802.9	2862.0	2817.7	2740.8	2699.2	2622.0	2765.6	1959.2
45°	2378.4	2399.5	2527.0	2755.1	2981.8	3103.3	3044.7	2970.3	2868.6	3032.4	2100.8
47.5°	2290.0	2293.7	2376.2	2626.5	2990.8	3337.4	3373.0	3251.9	3092.6	3247.4	2211.6
50°	2025.6	2032.4	2146.2	2403.7	2885.1	3447.9	3702.7	3588.0	3336.9	3413.1	2251.9
52.5°	1526.7	1536.3	1680.6	2037.7	2594.4	3400.8	3938.8	3910.9	3604.5	3494.0	2254.2
55°	900.8	913.3	1051.2	1371.6	2040.7	3101.1	3956.3	4058.5	3815.7	3541.9	2250.6
57.5°	420.7	429.5	508.4	706.6	1269.2	2450.9	3692.2	3957.3	3932.2	3567.2	2275.5
60°	223.5	226.0	245.1	305.9	573.6	1554.1	3176.8	3573.4	3826.0	3602.2	2305.8
62.5°	170.9	171.6	170.6	177.9	241.1	689.8	2401.2	2937.7	3398.3	3575.9	2272.2
65°	148.1	149.3	142.3	140.6	154.6	246.1	1426.5	2094.0	2670.4	3220.9	2043.4
67.5°	132.8	133.3	124.8	117.5	120.0	133.1	562.8	1146.4	1767.5	2360.9	1481.1
70°	122.3	121.8	112.5	101.0	97.7	91.0	178.9	420.2	844.7	1197.2	688.8
72.5°	108.2	108.5	104.0	89.0	81.2	63.6	82.9	122.5	252.1	326.2	161.4
75°	96.0	94.7	89.2	79.7	66.9	41.8	41.1	54.6	77.7	77.2	34.8
77.5°	69.4	68.2	69.9	65.4	51.4	27.1	20.5	26.3	31.6	30.6	9.8
80°	50.9	50.1	45.1	54.4	45.4	18.5	12.8	14.0	16.3	13.8	3.0
82.5°	34.8	34.6	31.8	30.1	25.8	11.3	8.0	8.8	10.5	7.8	1.5
85°	5.5	6.3	23.1	18.3	15.3	5.0	5.5	6.0	7.0	4.3	0.5
87.5°	0.0	0.0	10.8	9.5	3.0	2.0	3.3	3.5	3.5	2.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2
2.5°	1199.7	1174.7	1128.3	1080.5	1036.1	983.2	946.9	919.6	888.0	879.5	898.1
5°	1208.0	1160.7	1060.9	952.4	850.4	737.4	651.0	582.6	520.7	499.6	518.7
7.5°	1221.0	1150.6	988.0	809.4	631.9	455.5	334.8	255.3	204.7	189.7	197.7
10°	1234.1	1136.1	903.6	640.0	397.4	221.8	144.3	115.3	104.5	102.2	103.5
12.5°	1244.8	1116.6	800.6	455.0	212.5	118.8	94.5	89.7	88.2	88.2	88.7
15°	1251.4	1087.0	678.6	289.4	122.3	89.7	82.4	80.9	80.9	81.2	81.7
17.5°	1250.6	1049.4	545.0	175.2	91.5	79.4	75.2	73.9	73.7	74.2	74.4
20°	1241.3	1000.3	410.9	115.5	79.7	72.4	68.2	65.9	65.7	66.2	66.7
22.5°	1223.8	939.6	293.9	89.0	71.9	65.7	60.4	58.4	58.4	58.9	59.4
25°	1202.5	865.5	201.0	75.4	64.9	58.4	53.4	51.6	52.1	53.4	53.6
27.5°	1175.9	782.0	136.6	64.6	56.4	51.1	47.4	46.1	47.4	49.1	49.6
30°	1153.1	695.1	97.5	55.9	47.9	44.1	41.8	41.8	43.6	46.9	47.6
32.5°	1135.6	610.9	75.2	49.4	41.6	38.3	37.1	38.3	41.1	44.4	45.1
35°	1133.3	541.5	63.6	44.1	37.1	33.8	33.3	35.6	38.3	40.8	41.3
37.5°	1150.6	477.3	57.4	39.8	33.1	30.1	29.6	32.3	35.1	38.1	38.8
40°	1183.5	427.0	52.9	35.8	29.8	26.6	25.6	27.6	31.3	35.3	36.3
42.5°	1226.1	385.4	47.9	31.8	26.6	22.1	20.8	23.1	27.1	31.3	32.6
45°	1266.6	349.5	42.3	27.3	22.3	17.0	16.5	19.5	21.5	25.8	26.8
47.5°	1288.9	318.0	37.6	22.3	17.3	13.8	13.8	14.5	16.5	21.5	22.6
50°	1281.4	292.7	32.6	16.5	12.0	10.5	10.5	10.3	13.3	17.3	18.0
52.5°	1266.4	278.1	28.1	12.8	8.3	7.5	6.8	7.5	9.3	11.0	11.3
55°	1264.1	275.6	23.6	10.3	5.8	5.0	3.8	3.8	3.8	3.5	3.0
57.5°	1281.7	279.6	19.8	8.3	4.3	3.3	2.0	0.0	0.0	0.0	0.0
60°	1299.7	283.9	17.0	5.8	3.0	1.8	0.3	0.0	0.0	0.0	0.0
62.5°	1269.7	274.4	14.3	3.5	2.3	0.8	0.0	0.0	0.0	0.0	0.0
65°	1115.3	233.5	11.3	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	793.3	156.4	7.5	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	362.1	65.4	4.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	77.4	20.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.8	14.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.0	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.0	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.5	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)