

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: P192182

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25848 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

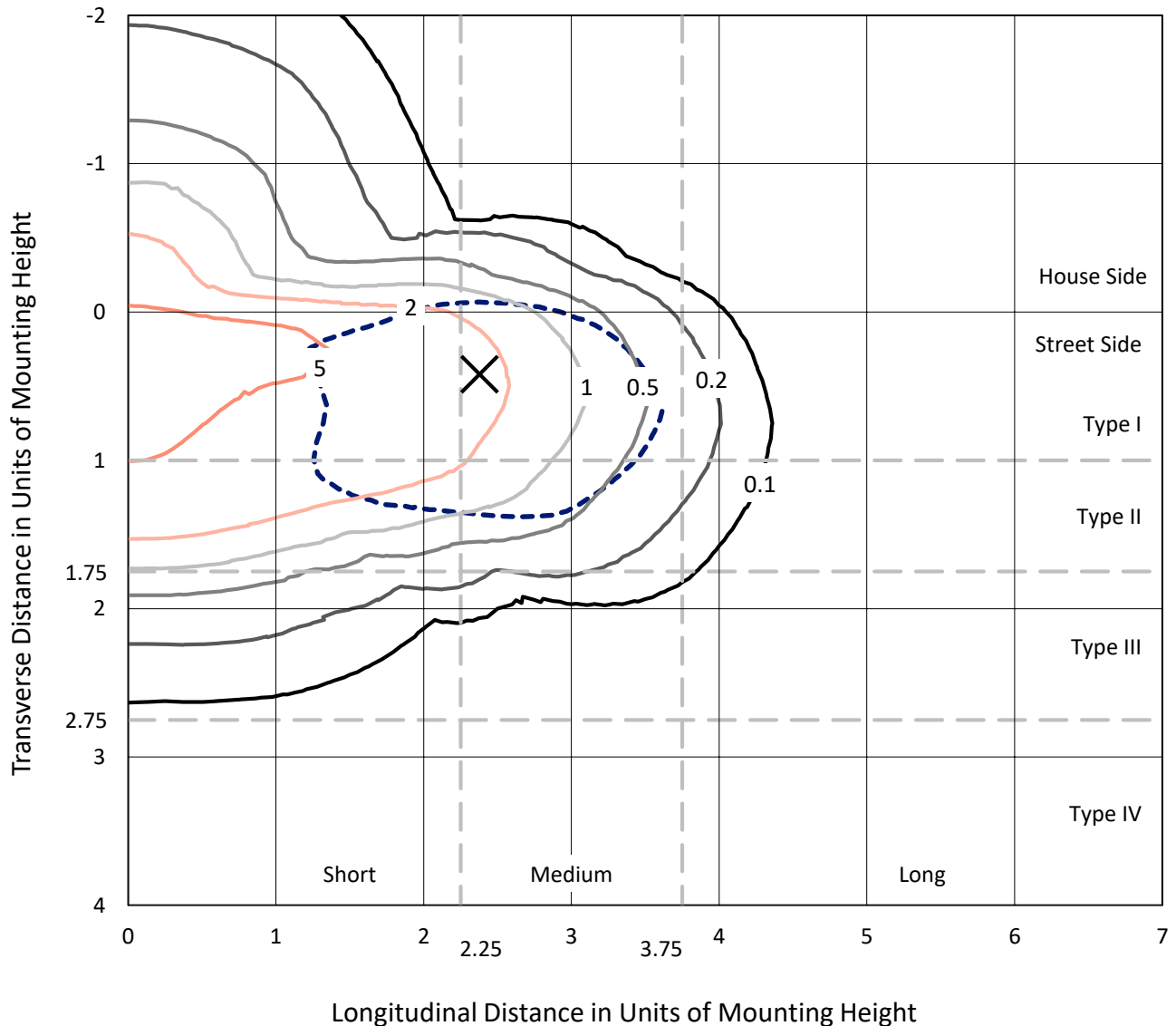
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

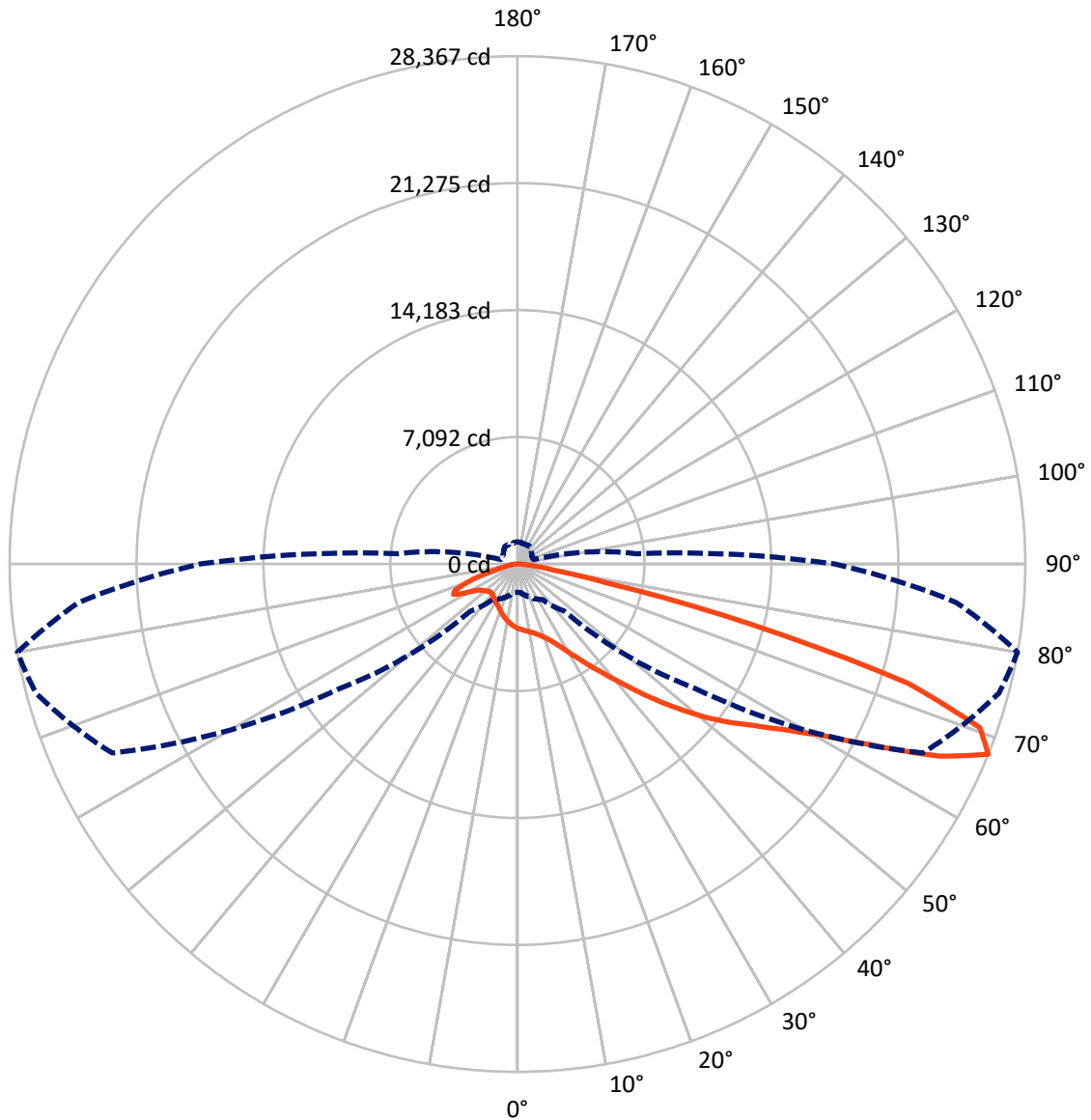
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4760.2	0.0	4760.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	21087.8	0.0	21087.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	25848.0	0.0	25848.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.3	1.3
10°-20°	954.3	3.7
20°-30°	1579.5	6.1
30°-40°	2583.7	10.0
40°-50°	4171.6	16.1
50°-60°	6022.5	23.3
60°-70°	6646.2	25.7
70°-80°	3063.5	11.9
80°-90°	495.5	1.9
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°	25848.0	100.0
0°-180°	25848.0	100.0



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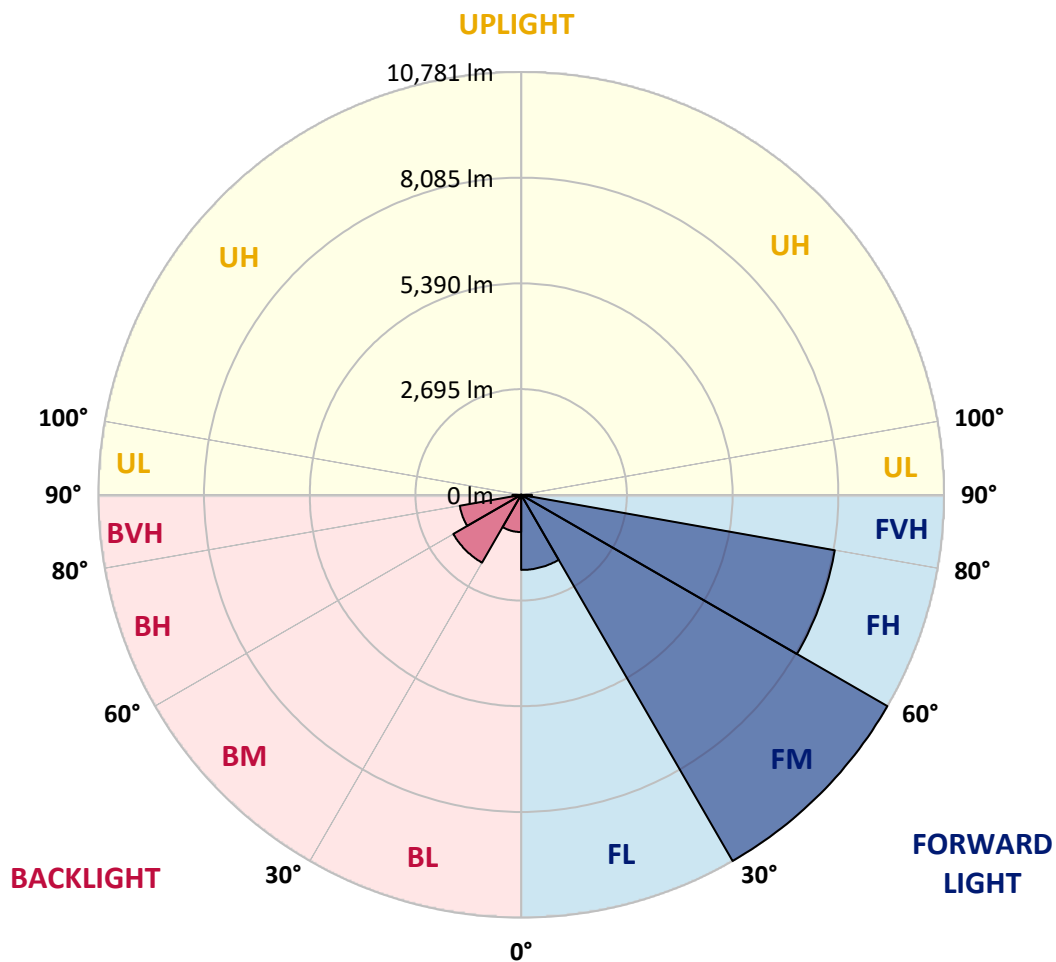
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1915.3	7.4			
FM	(30°-60°)	10780.5	41.7			
FH	(60°-80°)	8119.5	31.4			G4/12000
FVH	(80°-90°)	272.4	1.1			G3/500
BL	(0°-30°)	949.7	3.7	B2/1000		
BM	(30°-60°)	1997.2	7.7	B2/2500		
BH	(60°-80°)	1590.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	223.1	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0
2.5°	3928.3	3905.4	3909.2	3902.8	3883.7	3850.6	3815.0	3750.1	3682.7	3647.0	3619.0
5°	4256.6	4250.2	4241.3	4220.9	4172.6	4103.9	4018.6	3904.1	3780.6	3715.7	3653.4
7.5°	4502.2	4498.3	4486.9	4474.2	4427.1	4344.4	4215.8	4053.0	3873.5	3784.5	3687.8
10°	4522.5	4528.9	4537.8	4572.1	4578.5	4534.0	4402.9	4205.7	3970.2	3855.7	3732.3
12.5°	4349.5	4363.5	4397.8	4485.6	4578.5	4633.2	4565.8	4366.0	4083.5	3944.8	3788.3
15°	4120.4	4128.0	4170.0	4290.9	4457.6	4626.9	4690.5	4542.9	4229.8	4059.3	3872.3
17.5°	4022.4	4026.2	4055.5	4135.7	4290.9	4532.7	4760.5	4735.0	4409.3	4201.8	3975.3
20°	3972.8	3981.7	4023.7	4102.6	4200.6	4411.8	4770.7	4942.5	4623.0	4380.0	4105.1
22.5°	4114.0	4110.2	4125.5	4164.9	4247.7	4374.9	4763.0	5156.2	4895.4	4609.1	4274.4
25°	4443.6	4457.6	4430.9	4386.4	4413.1	4502.2	4803.7	5387.8	5236.4	4903.0	4495.8
27.5°	4913.2	4899.2	4859.7	4755.4	4700.7	4738.8	4938.6	5637.2	5660.1	5289.8	4788.5
30°	5381.5	5370.0	5331.8	5204.6	5092.6	5060.8	5200.8	5923.6	6165.3	5754.3	5147.3
32.5°	5867.6	5854.8	5819.2	5692.0	5557.1	5483.3	5573.6	6254.4	6760.9	6309.1	5569.8
35°	6466.9	6442.7	6367.7	6190.8	6058.4	6001.2	6043.2	6670.5	7448.0	6965.8	6082.6
37.5°	7030.6	7067.6	6991.2	6746.9	6575.1	6554.7	6601.8	7178.3	8188.6	7700.0	6671.8
40°	7596.9	7603.3	7534.6	7334.8	7157.9	7124.8	7243.2	7794.2	9062.9	8578.0	7388.2
42.5°	8182.3	8195.0	8079.2	7894.7	7764.9	7771.3	7906.1	8515.7	10065.6	9612.6	8212.8
45°	8875.8	8894.9	8767.6	8525.9	8407.5	8645.5	8589.5	9325.0	11165.1	10788.4	9159.6
47.5°	9601.1	9630.4	9533.7	9307.2	9159.6	9486.6	9272.8	10222.1	12348.5	12049.5	10199.2
50°	9996.9	10038.9	10133.0	10116.5	10084.7	10030.0	10035.1	11184.1	13568.8	13362.7	11268.1
52.5°	9784.4	9783.1	10126.7	10544.1	10989.4	11022.5	10964.0	12198.3	14709.0	14646.7	12274.7
55°	8812.2	8878.3	9398.8	10206.8	11423.4	12183.1	12356.1	13360.1	15828.8	15901.4	13296.5
57.5°	7193.5	7248.2	7950.7	9076.9	10838.0	12872.8	14336.2	15048.8	17081.0	17419.5	14656.8
60°	4878.8	4945.0	5689.4	7042.1	9262.6	12488.5	16220.8	18062.1	18580.0	19349.9	16565.6
62.5°	2867.0	2926.8	3533.8	4442.4	6521.6	10703.1	17047.9	22349.2	20960.9	22262.7	19477.1
65°	1973.7	2014.4	2309.6	2765.2	3747.6	7208.8	16022.2	25309.1	24624.4	25871.5	22853.1
67.5°	1588.1	1583.0	1817.2	2127.6	2412.7	3717.0	12115.6	24974.4	27846.5	28366.9	24605.4
70°	1308.1	1303.1	1462.1	1719.2	1927.9	2093.3	6599.3	21075.4	27189.8	27401.1	22991.8
72.5°	1094.4	1099.5	1201.3	1392.1	1581.7	1576.6	2900.1	14826.1	21389.7	22850.6	18328.0
75°	923.8	926.4	993.8	1128.7	1284.0	1270.0	1572.8	8032.1	12433.7	13450.5	10159.8
77.5°	786.4	789.0	832.2	907.3	1018.0	1012.9	1147.8	3470.1	5186.8	5123.1	3475.2
80°	701.2	701.2	721.5	735.5	796.6	773.7	851.3	1667.0	2192.5	2024.6	1387.0
82.5°	549.7	552.3	677.0	671.9	627.4	598.1	598.1	982.4	1161.8	1074.0	811.9
85°	309.2	307.9	436.5	526.8	552.3	421.2	417.4	549.7	632.4	557.4	393.2
87.5°	132.3	134.9	202.3	234.1	313.0	262.1	258.3	283.8	321.9	278.7	182.0
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°	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0	3591.0
2.5°	3592.3	3559.2	3486.7	3396.3	3314.9	3261.5	3213.1	3143.1	3146.9	3098.6	3062.9
5°	3589.8	3521.1	3353.1	3153.3	2961.1	2822.4	2718.1	2623.9	2601.0	2556.5	2529.8
7.5°	3592.3	3480.3	3197.8	2878.4	2640.5	2464.9	2375.8	2326.2	2314.7	2299.4	2300.7
10°	3601.2	3443.4	3027.3	2621.4	2372.0	2256.2	2234.5	2249.8	2267.6	2272.7	2274.0
12.5°	3621.6	3410.3	2840.3	2392.3	2204.0	2168.4	2205.3	2257.4	2291.8	2308.3	2307.1
15°	3667.4	3384.9	2660.8	2212.9	2111.1	2130.2	2198.9	2272.7	2322.3	2345.2	2346.5
17.5°	3717.0	3348.0	2476.3	2075.5	2042.4	2090.7	2176.0	2262.5	2323.6	2349.1	2354.2
20°	3781.9	3302.2	2282.9	1972.4	1977.5	2032.2	2112.4	2198.9	2266.4	2288.0	2298.2
22.5°	3867.2	3252.5	2113.6	1888.4	1903.7	1945.7	2008.0	2083.1	2141.6	2151.8	2160.7
25°	3981.7	3199.1	1978.8	1812.1	1818.4	1842.6	1884.6	1929.1	1969.9	1958.4	1967.3
27.5°	4135.7	3153.3	1878.2	1742.1	1730.6	1735.7	1757.3	1771.3	1793.0	1761.2	1765.0
30°	4316.4	3103.7	1800.6	1681.0	1649.2	1640.3	1645.4	1653.0	1669.5	1626.3	1619.9
32.5°	4526.3	3043.9	1728.1	1627.5	1583.0	1565.2	1567.7	1588.1	1651.7	1625.0	1611.0
35°	4770.7	2976.4	1651.7	1569.0	1538.5	1513.0	1510.5	1574.1	1763.7	1747.2	1734.4
37.5°	5057.0	2909.0	1575.4	1502.8	1505.4	1477.4	1468.5	1541.0	1785.3	1720.4	1711.5
40°	5420.9	2873.3	1510.5	1432.9	1464.7	1460.8	1443.0	1479.9	1642.8	1524.5	1509.2
42.5°	5871.4	2878.4	1462.1	1357.8	1416.3	1457.0	1429.0	1430.3	1488.8	1399.8	1385.8
45°	6427.5	2938.2	1427.8	1298.0	1361.6	1453.2	1423.9	1403.6	1408.7	1361.6	1354.0
47.5°	7076.5	3061.7	1403.6	1248.3	1309.4	1439.2	1422.7	1395.9	1384.5	1359.0	1352.7
50°	7798.0	3241.1	1385.8	1201.3	1262.3	1416.3	1423.9	1388.3	1375.6	1365.4	1361.6
52.5°	8506.8	3446.0	1359.0	1160.5	1225.4	1388.3	1427.8	1380.7	1366.7	1359.0	1355.2
55°	9297.0	3701.7	1318.3	1126.2	1194.9	1352.7	1427.8	1369.2	1354.0	1355.2	1354.0
57.5°	10364.6	4115.3	1270.0	1096.9	1158.0	1309.4	1403.6	1356.5	1337.4	1338.7	1340.0
60°	12032.9	4844.5	1211.4	1067.6	1112.2	1258.5	1370.5	1328.5	1309.4	1314.5	1315.8
62.5°	14486.3	5914.7	1135.1	1024.4	1063.8	1203.8	1324.7	1292.9	1273.8	1286.5	1286.5
65°	17036.4	6858.9	1040.9	969.7	1012.9	1144.0	1267.4	1248.3	1229.3	1258.5	1257.2
67.5°	17722.3	6647.6	946.8	909.8	962.0	1077.8	1198.7	1188.5	1178.3	1229.3	1226.7
70°	15743.6	5336.9	860.2	848.8	906.0	1006.6	1124.9	1124.9	1118.5	1156.7	1147.8
72.5°	11994.7	3784.5	777.5	783.9	842.4	928.9	1044.7	1053.6	1043.5	1062.6	1054.9
75°	6421.1	2165.8	694.8	712.6	763.5	850.0	955.7	964.6	958.2	956.9	960.7
77.5°	2134.0	1058.7	608.3	636.3	680.8	768.6	862.8	876.8	861.5	858.9	857.7
80°	950.6	665.5	512.8	549.7	589.2	675.7	764.8	776.2	759.7	782.6	753.3
82.5°	610.8	437.7	411.0	451.7	489.9	582.8	666.8	669.3	654.1	759.7	647.7
85°	296.5	271.0	309.2	346.1	379.2	458.1	552.3	553.5	515.4	469.6	453.0
87.5°	147.6	157.8	206.1	239.2	255.8	314.3	402.1	394.5	377.9	343.6	316.9
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)