

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: P194066

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T4FT-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31640 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

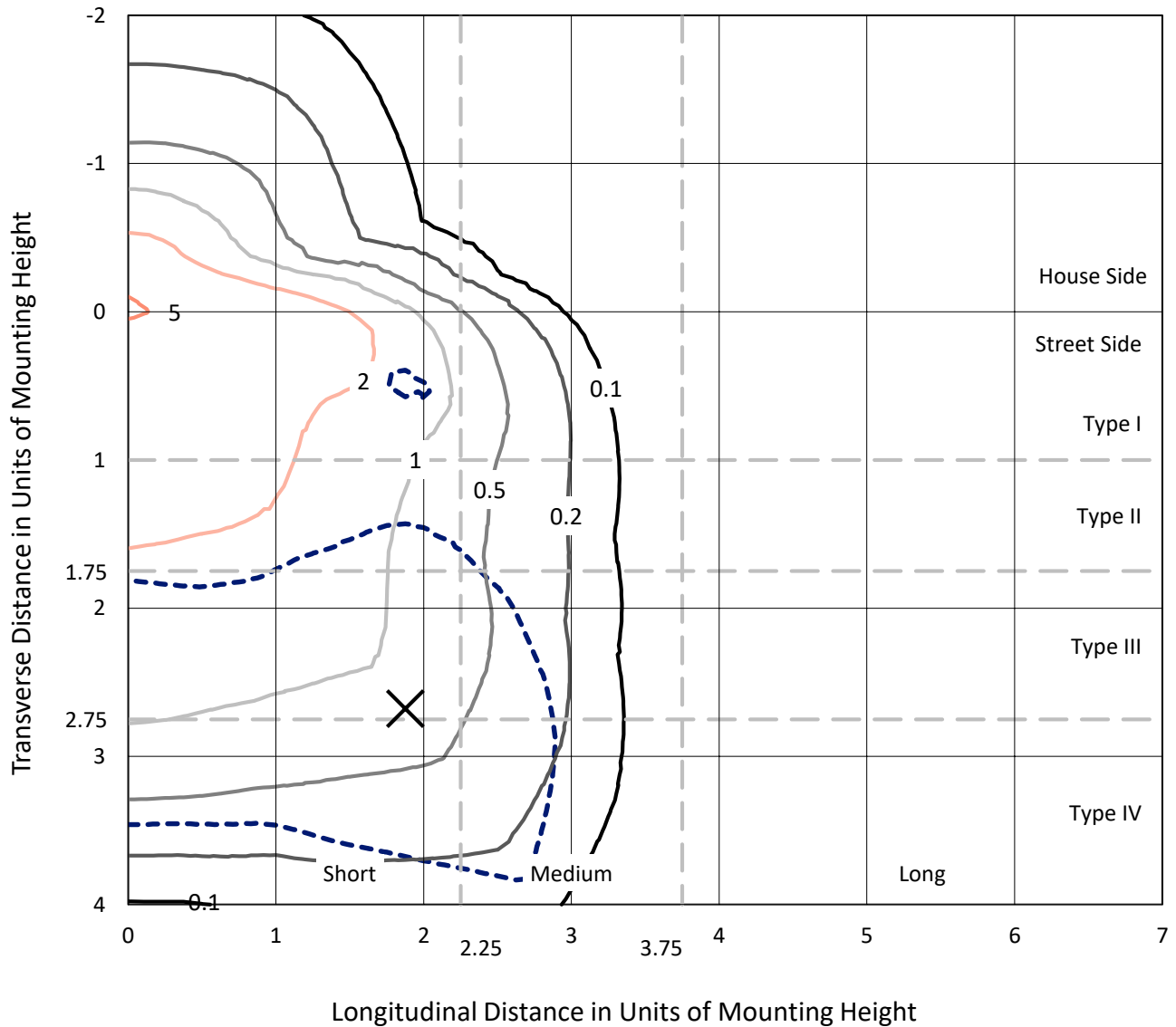


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

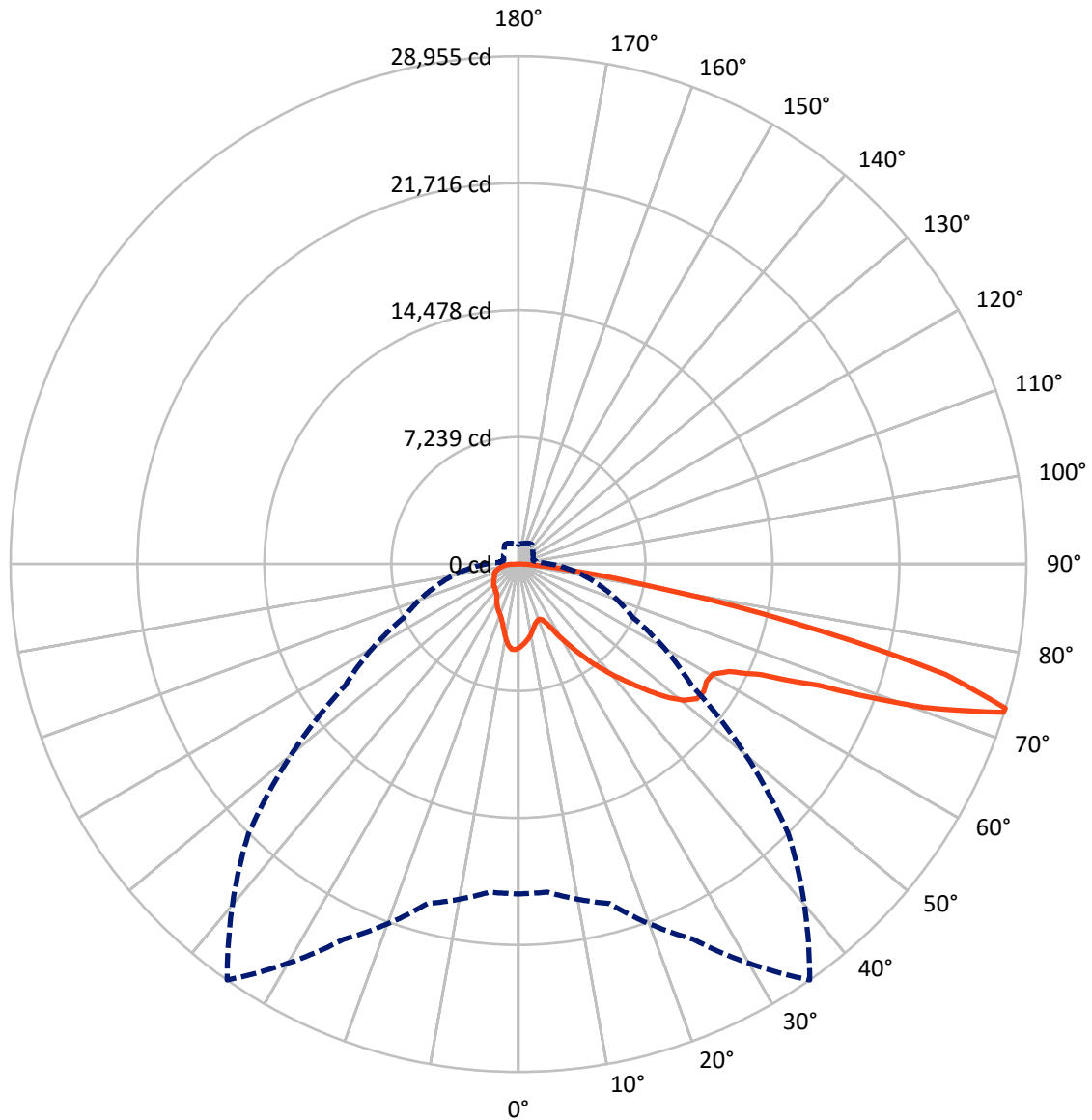


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6034.6	0.0	6034.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	25605.4	0.0	25605.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	31640.0	0.0	31640.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.3	1.4
10°-20°	1079.0	3.4
20°-30°	1744.4	5.5
30°-40°	2925.0	9.2
40°-50°	4508.8	14.3
50°-60°	6049.1	19.1
60°-70°	8058.6	25.5
70°-80°	6146.2	19.4
80°-90°	696.6	2.2
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°	31640.0	100.0
0°-180°	31640.0	100.0



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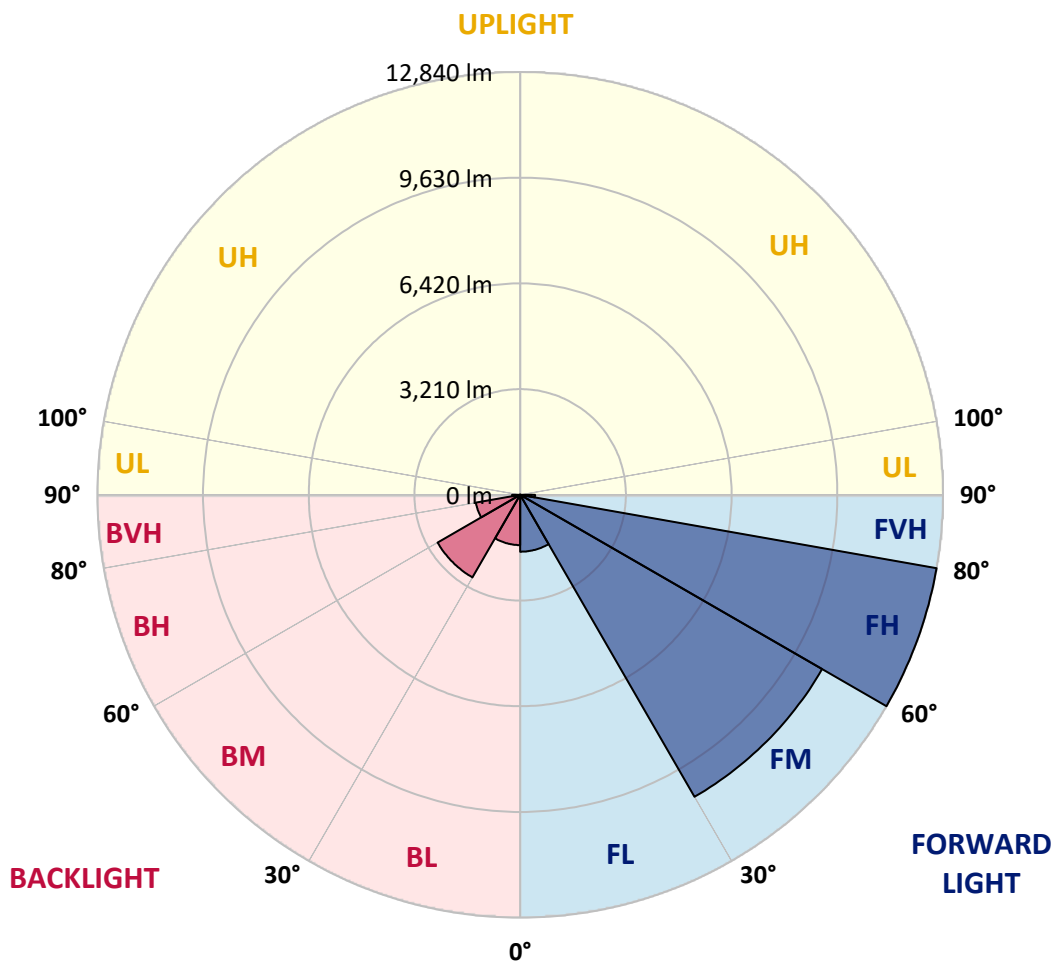
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1728.6	5.5			
FM	(30°-60°)	10587.0	33.5			
FH	(60°-80°)	12839.5	40.6			G5
FVH	(80°-90°)	450.3	1.4			G3/500
BL	(0°-30°)	1527.0	4.8	B3/2500		
BM	(30°-60°)	2895.9	9.2	B3/5000		
BH	(60°-80°)	1365.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	246.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5
2.5°	4587.1	4596.2	4585.5	4599.2	4622.0	4646.3	4663.0	4687.3	4714.7	4752.7	4761.8
5°	4371.3	4385.0	4385.0	4409.3	4453.3	4492.9	4529.3	4568.8	4626.6	4691.9	4717.7
7.5°	4134.3	4141.9	4155.5	4192.0	4255.8	4312.0	4363.7	4427.5	4506.5	4593.1	4638.7
10°	3848.6	3859.3	3880.5	3932.2	4018.8	4096.3	4170.7	4258.9	4359.1	4467.0	4524.8
12.5°	3646.5	3643.5	3652.6	3690.6	3766.6	3860.8	3968.7	4081.1	4204.2	4330.3	4400.2
15°	3578.2	3561.5	3526.5	3517.4	3558.4	3652.6	3777.2	3915.5	4062.9	4214.8	4301.4
17.5°	3620.7	3591.9	3496.1	3426.2	3420.2	3491.6	3623.8	3778.7	3948.9	4134.3	4242.2
20°	3888.1	3819.8	3584.3	3421.7	3365.5	3400.4	3515.9	3680.0	3880.5	4126.7	4264.9
22.5°	4527.8	4427.5	3927.6	3625.3	3435.4	3392.8	3479.4	3654.1	3888.1	4220.9	4397.1
25°	5459.2	5316.4	4517.2	4132.8	3740.8	3514.4	3534.1	3713.4	3996.0	4439.7	4652.4
27.5°	6194.6	6101.9	5287.5	4848.4	4296.8	3842.6	3711.9	3862.3	4216.3	4798.2	5015.5
30°	6632.2	6575.9	6111.0	5659.7	5006.4	4365.2	4052.2	4141.9	4561.2	5295.1	5474.4
32.5°	7139.6	7106.2	6878.3	6463.5	5772.2	5052.0	4591.6	4559.7	5023.1	5892.2	5974.3
35°	7665.3	7654.7	7521.0	7223.2	6594.2	5957.5	5307.2	5091.5	5526.0	6512.1	6460.5
37.5°	8154.6	8136.4	8058.9	7885.7	7454.2	6930.0	6036.6	5637.0	6068.5	7104.7	6875.3
40°	9055.6	8912.8	8646.9	8516.2	8323.2	7748.9	6615.4	6146.0	6630.6	7669.9	7233.8
42.5°	10154.1	9921.7	9426.3	9247.0	9219.7	8394.7	7010.5	6639.8	7197.4	8230.6	7586.3
45°	11018.7	10799.9	10372.9	10146.5	10246.8	8979.6	7407.1	7167.0	7780.8	8818.6	7949.5
47.5°	11940.9	11597.5	11032.3	11100.7	11319.5	9532.7	7811.2	7733.7	8420.5	9476.5	8400.7
50°	11974.4	11711.5	11463.8	11872.6	12212.9	10041.7	8317.2	8327.8	9203.0	10304.5	9000.9
52.5°	11280.0	11223.8	11617.3	12260.0	12750.8	10444.3	8893.0	8941.6	10204.3	11255.7	9660.3
55°	11036.9	10973.1	11427.4	12124.8	12823.7	10777.1	9517.5	9605.6	11415.2	12258.5	10303.0
57.5°	11629.5	11488.1	11518.5	12061.0	12645.9	11141.7	10198.2	10375.9	12731.0	13135.2	10716.3
60°	13285.6	12983.2	12408.9	12395.2	12741.6	11688.7	10985.2	11202.5	14098.5	13554.5	10555.2
62.5°	15608.7	15306.4	14230.7	13530.2	13478.6	12591.2	11951.6	12009.3	14888.6	12986.3	9572.2
65°	18123.3	17852.9	16651.1	15661.9	15184.8	14086.3	13074.4	12369.4	14630.3	11422.8	7852.2
67.5°	21175.8	20885.6	19852.4	18939.3	18480.4	16499.1	13863.0	12024.5	12990.8	8849.0	5644.6
70°	23310.6	23014.3	22607.1	23347.0	24469.9	19980.0	13964.8	10622.1	9702.9	5881.6	3397.4
72.5°	20525.5	20387.2	21130.2	24246.5	28923.2	22092.0	12623.1	7733.7	5635.4	3122.4	1966.1
73°	18805.6	18775.2	20042.3	23616.0	28955.1	21766.9	12035.1	7188.3	4833.2	2762.3	1797.4
75°	8491.9	8736.5	11514.0	18038.3	25156.6	17936.5	8470.6	4123.6	2730.4	1908.4	1356.8
77.5°	2040.5	2125.6	3602.5	8566.3	15886.8	10688.9	3838.0	2039.0	1745.8	1347.7	990.6
80°	869.1	898.0	1387.2	3164.9	7480.0	4304.4	1768.6	1365.9	1207.9	940.5	694.4
82.5°	483.2	513.6	787.0	1435.8	3019.0	1467.7	1078.8	951.1	794.6	566.7	451.3
85°	273.5	290.2	460.4	802.2	1279.3	589.5	645.7	632.1	448.2	291.7	221.8
87.5°	129.1	139.8	221.8	372.3	501.4	230.9	328.2	361.6	281.1	177.8	115.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5
2.5°	4772.4	4799.8	4831.7	4848.4	4863.6	4881.8	4900.0	4900.0	4903.1	4904.6
5°	4739.0	4795.2	4845.4	4866.6	4871.2	4871.2	4866.6	4842.3	4821.0	4830.2
7.5°	4669.1	4751.1	4793.7	4786.1	4728.4	4661.5	4605.3	4536.9	4502.0	4495.9
10°	4568.8	4663.0	4670.6	4594.7	4451.8	4309.0	4190.5	4075.0	4020.3	4006.6
12.5°	4457.9	4544.5	4495.9	4339.4	4110.0	3901.8	3751.4	3634.4	3582.7	3569.1
15°	4368.3	4427.5	4304.4	4058.3	3769.6	3549.3	3424.7	3338.1	3301.6	3291.0
17.5°	4321.2	4333.3	4108.4	3775.7	3468.8	3284.9	3207.4	3166.4	3152.7	3145.1
20°	4344.0	4258.9	3921.6	3512.8	3222.6	3093.5	3075.3	3064.6	3061.6	3057.0
22.5°	4457.9	4236.1	3749.9	3263.7	3006.9	2950.7	2965.9	2964.3	2961.3	2958.3
25°	4661.5	4255.8	3582.7	3026.6	2826.1	2813.9	2841.3	2841.3	2829.1	2829.1
27.5°	4930.4	4296.8	3395.8	2801.8	2662.0	2663.5	2684.8	2678.7	2665.0	2655.9
30°	5258.6	4322.7	3177.1	2599.7	2508.5	2502.4	2508.5	2482.7	2441.7	2438.6
32.5°	5594.4	4290.8	2923.3	2420.4	2345.9	2332.3	2327.7	2291.2	2244.1	2230.5
35°	5898.3	4173.8	2665.0	2277.6	2191.0	2160.6	2181.9	2169.7	2127.2	2116.5
37.5°	6120.1	3956.5	2432.6	2151.5	2080.1	2072.5	2086.1	2090.7	2040.5	2029.9
40°	6269.0	3661.7	2233.5	2045.1	2058.8	2029.9	1984.3	1952.4	1937.2	1932.7
42.5°	6389.1	3354.8	2066.4	1995.0	2063.3	1979.8	1881.0	1829.4	1856.7	1868.9
45°	6527.3	3055.5	1926.6	1932.7	2040.5	1922.0	1809.6	1759.5	1770.1	1773.1
47.5°	6717.2	2690.8	1776.2	1832.4	1964.6	1882.5	1765.5	1694.1	1644.0	1621.2
50°	6980.1	2259.3	1619.7	1720.0	1890.1	1853.7	1697.2	1621.2	1528.5	1507.2
52.5°	7162.4	1856.7	1490.5	1625.8	1823.3	1795.9	1642.5	1543.7	1446.5	1428.2
55°	7063.7	1542.2	1378.1	1520.9	1735.1	1724.5	1596.9	1464.7	1388.7	1373.5
57.5°	6569.9	1343.1	1291.5	1422.2	1627.3	1663.7	1536.1	1397.8	1343.1	1332.5
60°	5627.8	1218.6	1236.8	1355.3	1539.1	1603.0	1475.3	1361.4	1324.9	1317.3
62.5°	4366.7	1135.0	1195.8	1306.7	1470.8	1560.4	1441.9	1356.8	1343.1	1334.0
65°	3128.4	1068.1	1151.7	1258.1	1408.5	1520.9	1429.8	1350.7	1353.8	1346.2
67.5°	2125.6	1008.9	1098.5	1203.4	1347.7	1486.0	1413.0	1329.5	1367.5	1358.3
70°	1487.5	951.1	1036.2	1133.5	1271.7	1437.3	1382.6	1297.6	1294.5	1258.1
72.5°	1160.8	875.2	951.1	1036.2	1174.5	1369.0	1321.9	1226.2	1176.0	1138.0
73°	1107.6	856.9	929.9	1015.0	1153.2	1352.3	1305.2	1206.4	1150.2	1115.2
75°	916.2	777.9	844.8	920.8	1062.1	1273.3	1223.1	1116.8	1045.3	1024.1
77.5°	720.2	665.5	729.3	797.7	935.9	1157.8	1101.6	999.8	960.3	942.0
80°	533.3	551.5	607.8	668.5	811.4	1034.7	984.6	882.8	1059.0	1015.0
82.5°	375.3	417.8	469.5	524.2	680.7	914.7	853.9	749.1	774.9	644.2
85°	221.8	273.5	322.1	369.2	490.8	758.2	705.0	597.1	489.2	466.5
87.5°	129.1	151.9	165.6	214.2	337.3	571.3	496.8	442.1	253.7	171.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)