

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: P191520

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191520
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-02-LED-E1-T4FT-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 10126.2 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

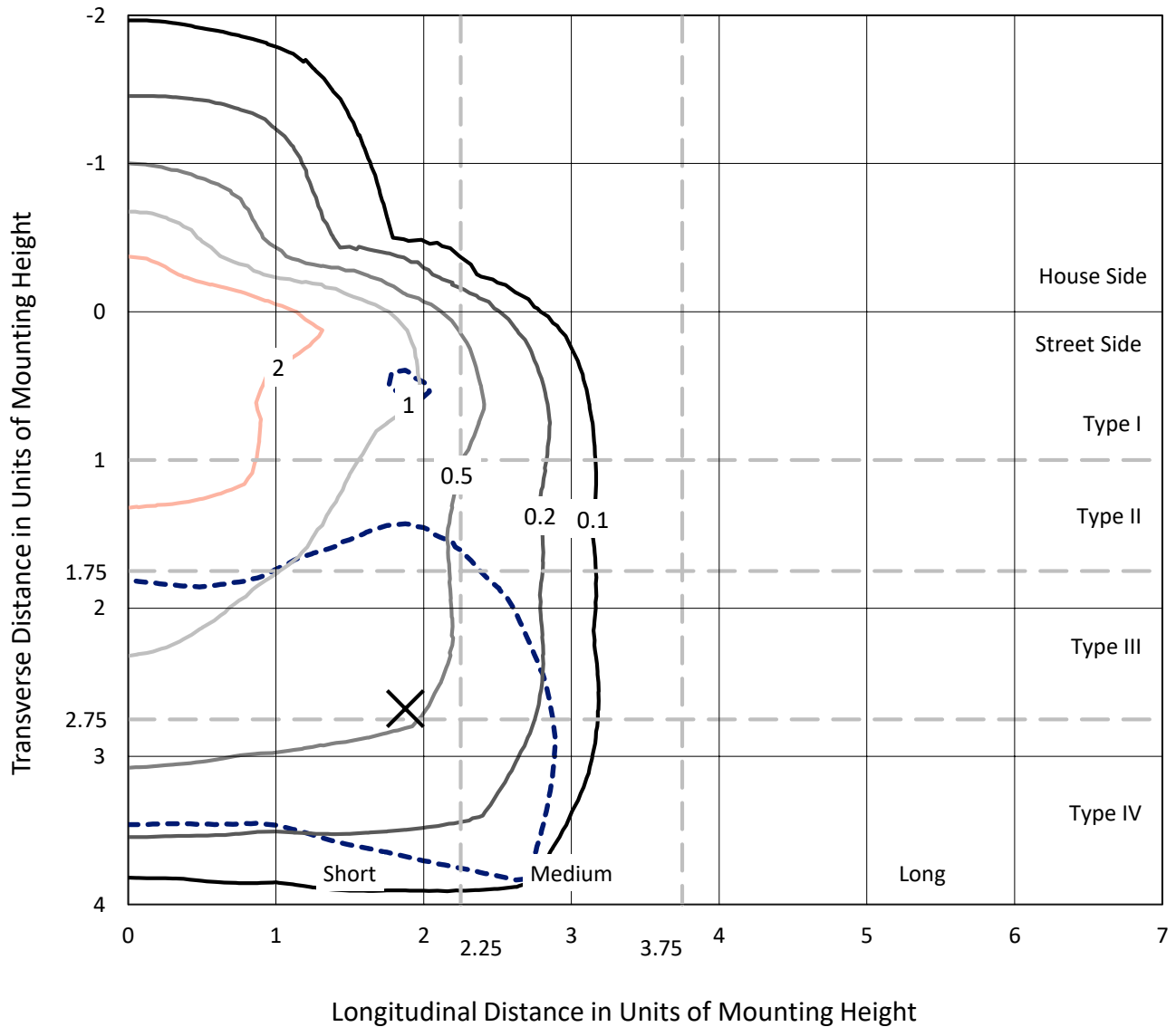
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

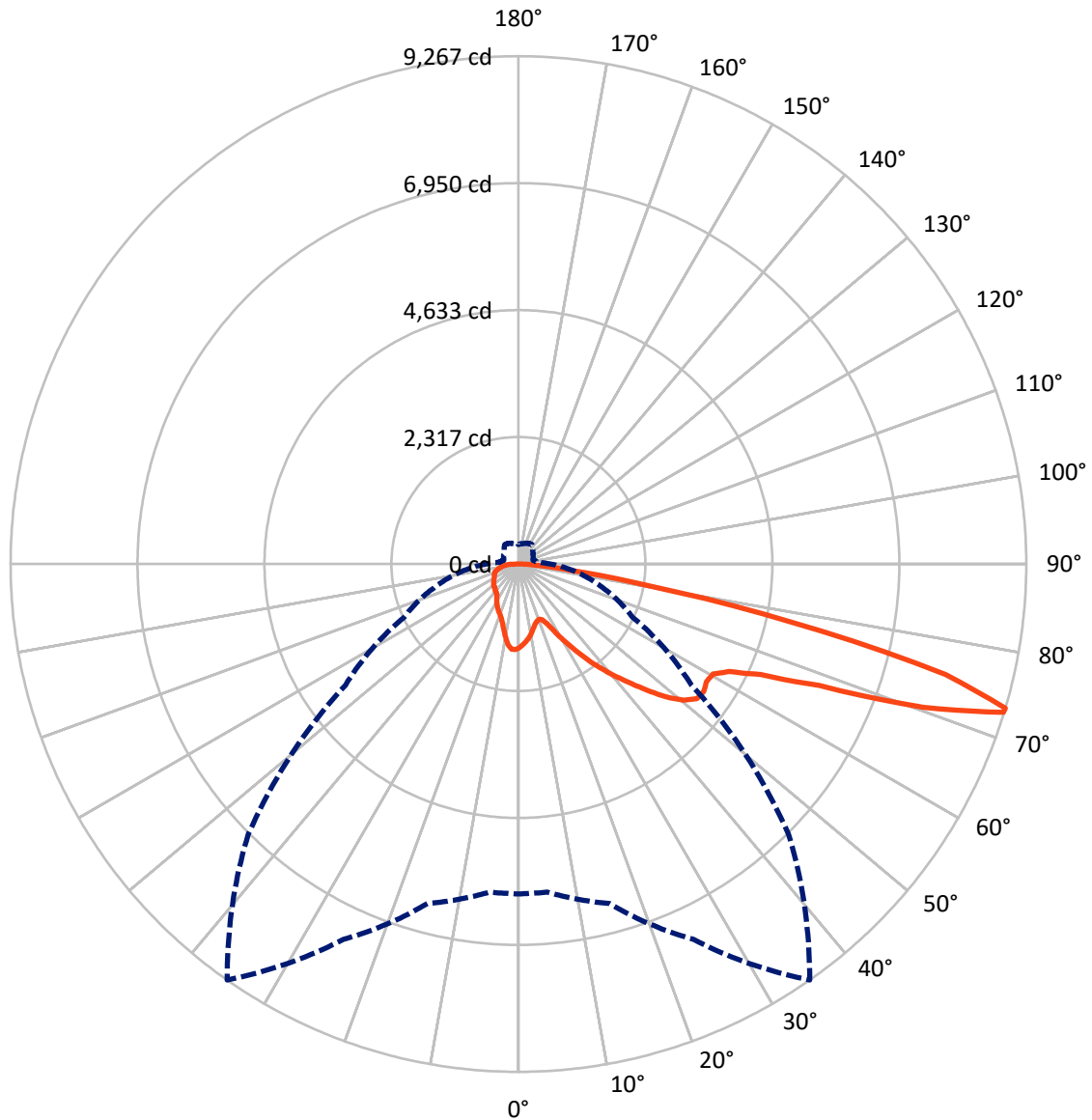
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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	1931.3	0.0	1931.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	8194.8	0.0	8194.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	10126.2	0.0	10126.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.4
10°-20°	345.3	3.4
20°-30°	558.3	5.5
30°-40°	936.1	9.2
40°-50°	1443.0	14.3
50°-60°	1936.0	19.1
60°-70°	2579.1	25.5
70°-80°	1967.1	19.4
80°-90°	223.0	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°	10126.2	100.0
0°-180°	10126.2	100.0

Coefficient of Utilization



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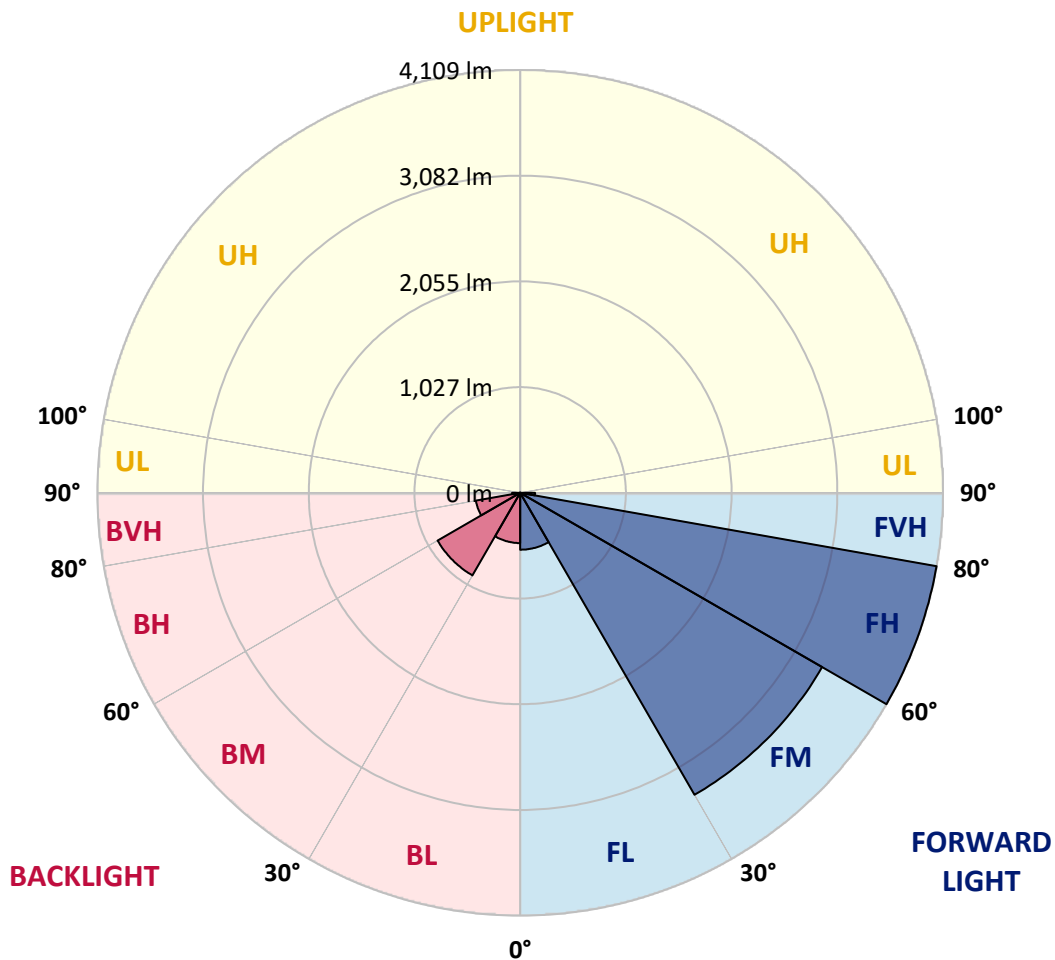
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	553.2	5.5			
FM	(30°-60°)	3388.3	33.5			
FH	(60°-80°)	4109.2	40.6			G2/5000
FVH	(80°-90°)	144.1	1.4			G2/225
BL	(0°-30°)	488.7	4.8	B1/500		
BM	(30°-60°)	926.8	9.2	B1/1000		
BH	(60°-80°)	436.9	4.3	B1/500		G1/500
BVH	(80°-90°)	78.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4
2.5°	1468.0	1471.0	1467.5	1471.9	1479.3	1487.1	1492.4	1500.2	1509.0	1521.0	1524.0
5°	1399.0	1403.4	1403.4	1411.2	1425.3	1437.9	1449.6	1462.2	1480.7	1501.6	1509.9
7.5°	1323.2	1325.5	1329.9	1341.6	1362.1	1380.1	1396.5	1417.0	1442.3	1470.0	1484.6
10°	1231.7	1235.1	1242.0	1258.4	1286.2	1311.0	1334.8	1363.0	1395.1	1429.7	1448.1
12.5°	1167.1	1166.1	1169.0	1181.2	1205.4	1235.6	1270.1	1306.1	1345.5	1385.9	1408.3
15°	1145.2	1139.9	1128.6	1125.8	1138.9	1169.0	1208.9	1253.1	1300.3	1349.0	1376.7
17.5°	1158.8	1149.6	1118.9	1096.5	1094.6	1117.5	1159.7	1209.3	1263.9	1323.2	1357.7
20°	1244.4	1222.5	1147.1	1095.1	1077.1	1088.3	1125.2	1177.7	1242.0	1320.7	1364.9
22.5°	1449.1	1417.0	1257.0	1160.2	1099.5	1085.9	1113.6	1169.4	1244.4	1350.9	1407.3
25°	1747.2	1701.5	1445.7	1322.7	1197.2	1124.7	1131.1	1188.5	1278.9	1420.9	1489.0
27.5°	1982.6	1952.9	1692.3	1551.7	1375.2	1229.8	1188.0	1236.1	1349.4	1535.7	1605.2
30°	2122.6	2104.6	1955.8	1811.3	1602.2	1397.0	1296.9	1325.5	1459.8	1694.6	1752.0
32.5°	2285.0	2274.3	2201.4	2068.6	1847.3	1616.9	1469.5	1459.3	1607.7	1885.8	1912.0
35°	2453.2	2449.9	2407.0	2311.8	2110.4	1906.7	1698.5	1629.5	1768.6	2084.2	2067.6
37.5°	2609.9	2604.0	2579.2	2523.7	2385.6	2217.9	1931.9	1804.1	1942.2	2273.8	2200.4
40°	2898.2	2852.5	2767.4	2725.6	2663.8	2480.0	2117.2	1966.9	2122.1	2454.7	2315.1
42.5°	3249.8	3175.3	3016.9	2959.5	2950.7	2686.7	2243.6	2125.0	2303.5	2634.1	2428.0
45°	3526.4	3456.4	3319.8	3247.4	3279.4	2873.9	2370.6	2293.8	2490.2	2822.3	2544.2
47.5°	3821.6	3711.7	3530.8	3552.7	3622.8	3050.8	2499.9	2475.1	2695.0	3032.8	2688.6
50°	3832.3	3748.2	3668.9	3799.8	3908.7	3213.8	2661.8	2665.3	2945.4	3297.9	2880.7
52.5°	3610.1	3592.1	3718.0	3923.7	4080.8	3342.6	2846.2	2861.7	3265.8	3602.3	3091.8
55°	3532.2	3511.9	3657.3	3880.5	4104.2	3449.2	3046.0	3074.2	3653.4	3923.2	3297.4
57.5°	3721.9	3676.7	3686.4	3860.0	4047.2	3565.8	3263.8	3320.8	4074.5	4203.8	3429.6
60°	4252.0	4155.2	3971.4	3967.0	4077.9	3740.9	3515.8	3585.3	4512.1	4338.0	3378.1
62.5°	4995.5	4898.7	4554.5	4330.3	4313.7	4029.7	3825.0	3843.5	4765.0	4156.1	3063.5
65°	5800.2	5713.7	5329.1	5012.5	4859.8	4508.2	4184.4	3958.7	4682.4	3655.8	2513.1
67.5°	6777.2	6684.3	6353.6	6061.4	5914.5	5280.5	4436.7	3848.3	4157.7	2832.0	1806.5
70°	7460.4	7365.6	7235.2	7472.0	7831.4	6394.5	4469.4	3399.6	3105.4	1882.3	1087.3
72.5°	6569.1	6524.8	6762.6	7759.9	9256.7	7070.4	4039.9	2475.1	1803.6	999.3	629.2
73°	6018.6	6008.9	6414.4	7558.2	9266.9	6966.4	3851.8	2300.5	1546.8	884.0	575.3
75°	2717.8	2796.0	3685.0	5773.0	8051.2	5740.5	2710.9	1319.7	873.8	610.8	434.2
77.5°	653.1	680.3	1153.0	2741.6	5084.5	3421.0	1228.4	652.5	558.7	431.3	317.0
80°	278.1	287.3	444.0	1012.9	2393.9	1377.6	566.0	437.2	386.6	301.0	222.2
82.5°	154.7	164.4	251.9	459.5	966.2	469.7	345.2	304.4	254.3	181.4	144.4
85°	87.6	92.9	147.3	256.8	409.5	188.6	206.6	202.3	143.4	93.4	71.0
87.5°	41.3	44.7	71.0	119.2	160.5	74.0	105.1	115.7	89.9	56.9	36.9
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°	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4	1528.4
2.5°	1527.4	1536.2	1546.4	1551.7	1556.5	1562.4	1568.2	1568.2	1569.2	1569.7
5°	1516.7	1534.6	1550.7	1557.5	1559.0	1559.0	1557.5	1549.8	1542.9	1545.9
7.5°	1494.3	1520.6	1534.2	1531.8	1513.3	1491.9	1473.9	1452.0	1440.8	1438.9
10°	1462.2	1492.4	1494.8	1470.5	1424.8	1379.0	1341.2	1304.2	1286.7	1282.3
12.5°	1426.7	1454.4	1438.9	1388.8	1315.4	1248.7	1200.6	1163.2	1146.6	1142.2
15°	1398.1	1417.0	1377.6	1298.8	1206.5	1135.9	1096.1	1068.4	1056.7	1053.2
17.5°	1382.9	1386.8	1314.9	1208.4	1110.2	1051.3	1026.5	1013.4	1009.0	1006.6
20°	1390.3	1363.0	1255.1	1124.2	1031.3	990.0	984.2	980.8	979.9	978.4
22.5°	1426.7	1355.7	1200.1	1044.5	962.3	944.4	949.2	948.7	947.8	946.7
25°	1491.9	1362.1	1146.6	968.6	904.5	900.6	909.3	909.3	905.4	905.4
27.5°	1578.0	1375.2	1086.8	896.7	851.9	852.4	859.3	857.3	852.9	850.0
30°	1683.0	1383.4	1016.8	832.0	802.8	800.9	802.8	794.5	781.4	780.5
32.5°	1790.5	1373.2	935.6	774.7	750.8	746.4	745.0	733.3	718.2	713.8
35°	1887.8	1335.8	852.9	729.0	701.2	691.5	698.3	694.4	680.8	677.4
37.5°	1958.7	1266.2	778.6	688.5	665.7	663.3	667.7	669.1	653.1	649.7
40°	2006.3	1171.9	714.8	654.5	658.9	649.7	635.0	624.8	620.0	618.6
42.5°	2044.8	1073.7	661.3	638.5	660.3	633.6	602.0	585.4	594.2	598.1
45°	2089.1	977.9	616.6	618.6	653.1	615.1	579.2	563.1	566.5	567.4
47.5°	2149.8	861.2	568.5	586.5	628.7	602.5	565.1	542.2	526.1	518.8
50°	2233.9	723.1	518.3	550.4	605.0	593.2	543.2	518.8	489.2	482.4
52.5°	2292.3	594.2	477.0	520.3	583.5	574.8	525.7	494.1	462.9	457.1
55°	2260.7	493.6	441.1	486.7	555.4	551.9	511.1	468.8	444.5	439.6
57.5°	2102.7	429.8	413.4	455.1	520.8	532.4	491.6	447.3	429.8	426.5
60°	1801.1	389.9	395.8	433.7	492.6	513.0	472.2	435.7	424.0	421.6
62.5°	1397.6	363.2	382.7	418.2	470.8	499.4	461.5	434.2	429.8	427.0
65°	1001.3	341.9	368.6	402.6	450.8	486.7	457.6	432.3	433.2	430.9
67.5°	680.3	322.8	351.6	385.1	431.3	475.6	452.2	425.4	437.6	434.8
70°	476.1	304.4	331.6	362.7	407.0	460.0	442.5	415.3	414.3	402.6
72.5°	371.5	280.1	304.4	331.6	375.9	438.1	423.1	392.4	376.3	364.2
73°	354.5	274.3	297.6	324.8	369.1	432.8	417.7	386.1	368.1	356.9
75°	293.2	249.0	270.4	294.7	339.9	407.5	391.5	357.4	334.5	327.8
77.5°	230.5	213.0	233.4	255.3	299.5	370.5	352.5	320.0	307.3	301.5
80°	170.7	176.6	194.5	214.0	259.6	331.1	315.1	282.5	338.9	324.8
82.5°	120.1	133.7	150.3	167.8	217.9	292.8	273.3	239.8	248.0	206.2
85°	71.0	87.6	103.1	118.2	157.0	242.6	225.7	191.1	156.6	149.2
87.5°	41.3	48.6	53.0	68.5	107.9	182.8	159.0	141.5	81.2	54.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)