

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: STREETWORKS

Report Number: P479444

Luminaire Tested: **IFLD-S-SA3B-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479444
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

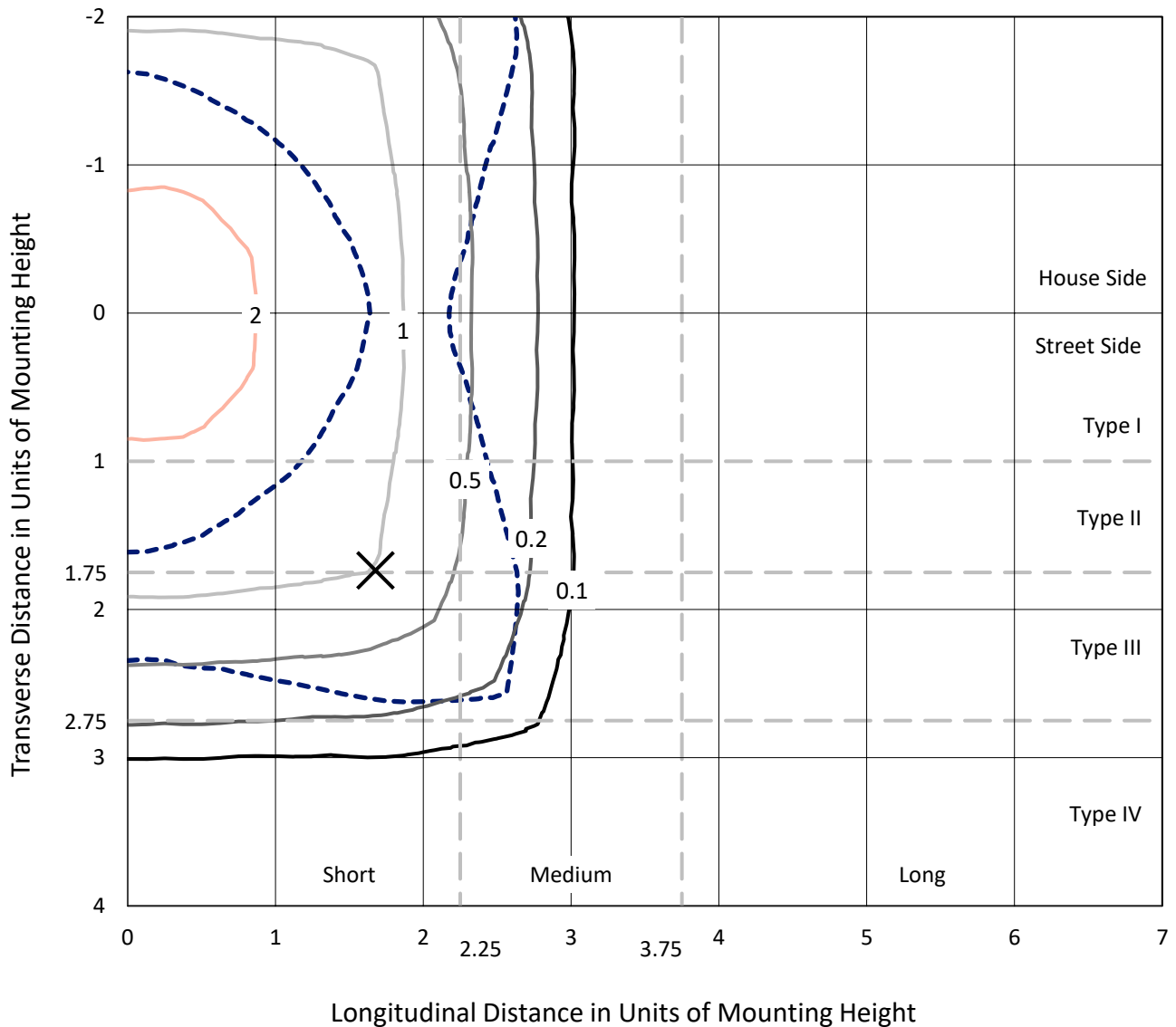
Lumens per Lamp: N/A
Luminaire Lumens: 12626 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.4
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

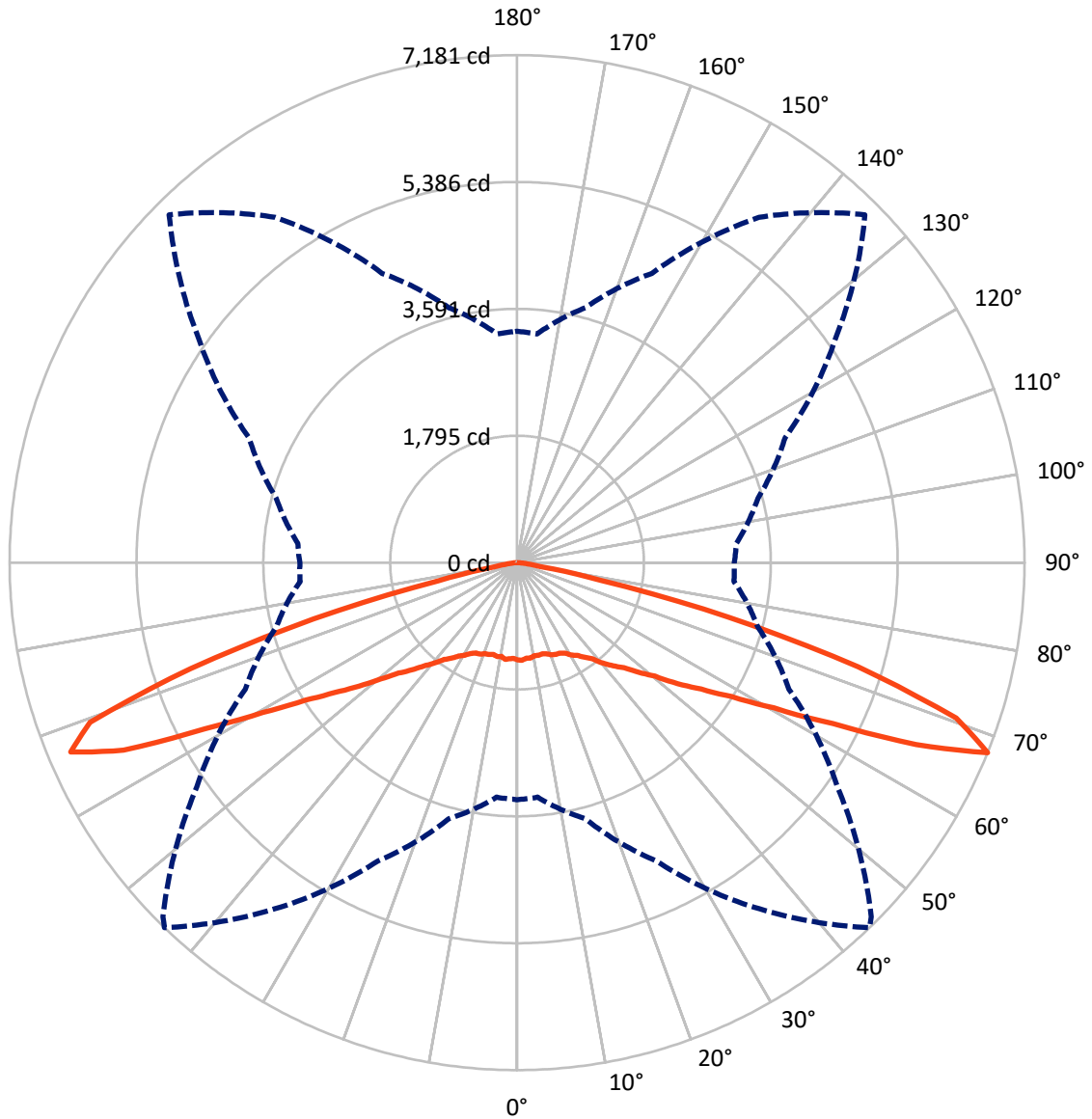
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6296.9	0.0	6296.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6329.2	0.0	6329.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	12626.0	0.0	12626.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	1.0
10°-20°	381.3	3.0
20°-30°	648.4	5.1
30°-40°	1028.1	8.1
40°-50°	1676.3	13.3
50°-60°	2863.0	22.7
60°-70°	4354.5	34.5
70°-80°	1467.7	11.6
80°-90°	76.2	0.6
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°	12626.0	100.0
0°-180°	12626.0	100.0



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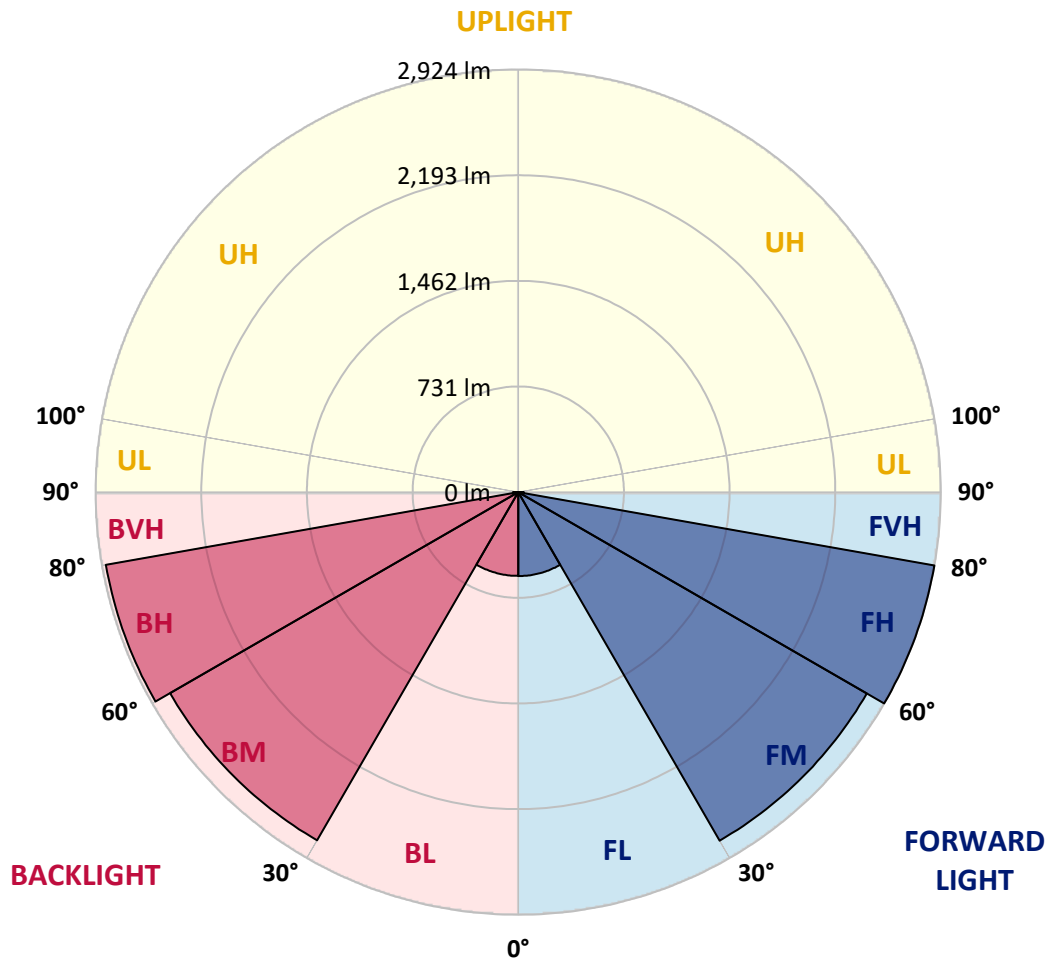
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.7	4.6			
FM (30°-60°)	2785.2	22.1			
FH (60°-80°)	2924.3	23.2			G2/5000
FVH (80°-90°)	39.0	0.3			G1/100
BL (0°-30°)	579.5	4.6	B2/1000		
BM (30°-60°)	2782.2	22.0	B3/5000		
BH (60°-80°)	2898.0	23.0	B4/5000		G2/5000
BVH (80°-90°)	37.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2
2.5°	1347.5	1363.3	1374.9	1373.4	1377.7	1382.1	1376.3	1384.9	1379.2	1389.3	1395.0
5°	1373.4	1369.1	1370.5	1361.9	1382.1	1359.0	1359.0	1370.5	1384.9	1367.6	1377.7
7.5°	1357.6	1354.7	1347.5	1360.4	1364.8	1364.8	1376.3	1354.7	1379.2	1384.9	1386.4
10°	1340.3	1324.4	1346.0	1359.0	1361.9	1338.8	1348.9	1354.7	1347.5	1354.7	1359.0
12.5°	1325.9	1334.5	1334.5	1334.5	1330.2	1346.0	1356.1	1354.7	1340.3	1353.2	1330.2
15°	1324.4	1320.1	1333.1	1344.6	1337.4	1340.3	1344.6	1357.6	1330.2	1335.9	1335.9
17.5°	1323.0	1328.7	1333.1	1331.6	1356.1	1356.1	1351.8	1343.1	1364.8	1353.2	1337.4
20°	1328.7	1324.4	1335.9	1340.3	1357.6	1392.1	1379.2	1372.0	1360.4	1346.0	1346.0
22.5°	1335.9	1333.1	1348.9	1367.6	1400.8	1409.4	1408.0	1399.4	1379.2	1361.9	1359.0
25°	1361.9	1335.9	1353.2	1389.3	1400.8	1418.1	1429.6	1418.1	1390.7	1395.0	1369.1
27.5°	1400.8	1396.5	1419.5	1444.0	1433.9	1449.8	1439.7	1448.4	1449.8	1428.2	1402.2
30°	1446.9	1433.9	1448.4	1495.9	1500.2	1517.5	1500.2	1477.2	1484.4	1465.6	1452.7
32.5°	1513.2	1508.9	1536.3	1568.0	1573.7	1565.1	1556.4	1569.4	1539.1	1524.7	1501.7
35°	1556.4	1575.2	1608.3	1632.8	1651.6	1642.9	1647.2	1634.3	1641.5	1611.2	1601.1
37.5°	1684.7	1677.5	1684.7	1726.5	1730.8	1726.5	1730.8	1745.2	1735.1	1709.2	1683.3
40°	1805.8	1794.2	1811.5	1859.1	1856.2	1870.6	1841.8	1857.6	1857.6	1808.6	1798.6
42.5°	1896.6	1935.5	1955.6	1994.5	2009.0	1996.0	1990.2	1993.1	2024.8	1967.2	1945.5
45°	2083.9	2082.5	2143.0	2164.6	2124.3	2121.4	2109.8	2144.4	2166.0	2132.9	2124.3
47.5°	2287.1	2297.2	2331.8	2340.4	2364.9	2320.2	2320.2	2324.6	2401.0	2323.1	2282.8
50°	2470.1	2483.1	2552.3	2620.0	2573.9	2526.3	2545.1	2568.1	2609.9	2536.4	2501.8
52.5°	2692.1	2762.7	2808.8	2844.8	2878.0	2844.8	2801.6	2827.5	2909.7	2811.7	2768.4
55°	3012.0	3068.2	3111.4	3177.7	3205.1	3160.4	3156.1	3153.2	3199.3	3095.6	3036.5
57.5°	3369.4	3346.3	3415.5	3517.8	3617.3	3574.0	3561.1	3564.0	3575.5	3428.5	3383.8
60°	3813.3	3839.2	3921.4	4010.7	4115.9	4176.4	4091.4	4042.4	4052.5	3852.2	3783.0
62.5°	4066.9	4124.6	4310.5	4617.4	4829.3	5018.1	5031.0	4712.6	4499.3	4110.2	3816.2
65°	3944.4	3935.8	4286.0	4853.8	5656.5	6205.6	6123.4	5351.0	4605.9	3987.7	3592.8
67.5°	3355.0	3331.9	3755.6	4656.3	5982.2	7181.2	7087.6	5531.1	4245.6	3527.9	3081.2
70°	2161.7	2156.0	2615.7	3549.5	5340.9	6593.2	6627.8	5023.8	3455.9	2584.0	2141.5
72.5°	785.4	833.0	1099.6	1908.1	3627.4	5044.0	5065.6	3719.6	1987.3	1194.7	880.5
75°	289.7	298.3	347.3	619.7	1653.0	3097.0	3177.7	1804.3	706.2	389.1	317.1
77.5°	167.2	168.6	185.9	230.6	490.0	1209.1	1258.1	547.6	273.8	207.5	191.7
80°	113.9	112.4	131.1	149.9	196.0	343.0	364.6	229.1	172.9	144.1	121.1
82.5°	66.3	70.6	96.6	106.6	119.6	151.3	154.2	142.7	129.7	106.6	79.3
85°	40.4	33.1	53.3	59.1	69.2	67.7	67.7	77.8	83.6	74.9	44.7
87.5°	10.1	10.1	13.0	14.4	18.7	14.4	15.9	30.3	40.4	37.5	23.1
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°	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2
2.5°	1382.1	1377.7	1380.6	1396.5	1386.4	1356.1	1363.3	1379.2	1366.2	1359.0	1357.6
5°	1376.3	1384.9	1374.9	1377.7	1387.8	1363.3	1367.6	1387.8	1379.2	1382.1	1366.2
7.5°	1377.7	1382.1	1373.4	1360.4	1360.4	1380.6	1369.1	1372.0	1359.0	1380.6	1351.8
10°	1369.1	1357.6	1347.5	1354.7	1351.8	1346.0	1341.7	1350.4	1337.4	1356.1	1335.9
12.5°	1343.1	1346.0	1343.1	1340.3	1346.0	1360.4	1337.4	1340.3	1320.1	1323.0	1333.1
15°	1333.1	1341.7	1338.8	1354.7	1361.9	1340.3	1357.6	1340.3	1324.4	1315.8	1331.6
17.5°	1337.4	1350.4	1346.0	1357.6	1344.6	1360.4	1363.3	1356.1	1337.4	1330.2	1337.4
20°	1341.7	1337.4	1343.1	1363.3	1382.1	1366.2	1366.2	1361.9	1344.6	1334.5	1334.5
22.5°	1351.8	1344.6	1353.2	1369.1	1374.9	1399.4	1377.7	1367.6	1338.8	1312.9	1337.4
25°	1372.0	1376.3	1382.1	1376.3	1408.0	1405.1	1402.2	1395.0	1350.4	1351.8	1347.5
27.5°	1410.9	1386.4	1393.6	1428.2	1432.5	1444.0	1429.6	1442.6	1395.0	1396.5	1367.6
30°	1458.4	1432.5	1455.6	1485.8	1484.4	1506.0	1498.8	1501.7	1468.5	1449.8	1410.9
32.5°	1510.3	1507.4	1521.9	1540.6	1547.8	1559.3	1557.9	1557.9	1537.7	1488.7	1495.9
35°	1568.0	1588.1	1605.4	1625.6	1628.5	1642.9	1622.7	1625.6	1605.4	1569.4	1580.9
37.5°	1681.8	1680.4	1699.1	1723.6	1726.5	1715.0	1730.8	1723.6	1696.2	1671.7	1653.0
40°	1814.4	1785.6	1802.9	1860.5	1864.8	1844.7	1843.2	1841.8	1821.6	1768.3	1756.8
42.5°	1929.7	1967.2	1964.3	1983.0	1970.0	1960.0	1996.0	1975.8	1960.0	1903.8	1893.7
45°	2078.1	2089.7	2127.1	2187.7	2125.7	2125.7	2150.2	2134.3	2125.7	2083.9	2045.0
47.5°	2262.6	2272.7	2347.6	2352.0	2311.6	2284.2	2360.6	2363.5	2327.5	2295.7	2248.2
50°	2478.8	2483.1	2550.8	2620.0	2575.3	2523.4	2601.3	2631.5	2550.8	2507.6	2448.5
52.5°	2716.6	2703.6	2759.8	2889.5	2846.3	2830.4	2914.0	2921.2	2811.7	2743.9	2759.8
55°	2990.4	2973.1	3125.8	3213.8	3186.4	3157.6	3195.0	3212.3	3124.4	3013.4	3052.4
57.5°	3344.9	3353.6	3429.9	3516.4	3561.1	3568.3	3585.6	3568.3	3478.9	3366.5	3330.5
60°	3699.4	3725.4	3873.8	4036.7	4051.1	4177.9	4154.8	4068.4	3941.5	3781.6	3788.8
62.5°	3830.6	3809.0	4048.2	4445.9	4784.6	5016.6	4914.3	4607.3	4313.4	4022.2	4043.9
65°	3566.8	3620.2	3945.9	4568.4	5303.4	6221.4	5676.7	4827.8	4234.1	3858.0	3816.2
67.5°	3074.0	3114.3	3527.9	4185.1	5489.3	6962.2	5964.9	4516.6	3734.0	3246.9	3272.8
70°	2141.5	2161.7	2566.7	3428.5	4977.7	6570.2	5381.2	3468.8	2578.2	2055.1	2083.9
72.5°	861.8	910.8	1177.4	2065.2	3674.9	4992.1	3623.0	1820.2	1069.3	795.5	722.0
75°	318.5	319.9	376.1	710.5	1745.2	3137.4	1634.3	585.1	341.6	279.6	266.6
77.5°	184.5	183.0	196.0	256.5	505.8	1225.0	464.0	229.1	185.9	167.2	160.0
80°	115.3	113.9	134.0	170.1	221.9	335.8	196.0	142.7	125.4	108.1	108.1
82.5°	73.5	74.9	105.2	125.4	135.5	148.4	113.9	100.9	93.7	62.0	60.5
85°	47.6	43.2	73.5	83.6	74.9	66.3	63.4	53.3	49.0	30.3	33.1
87.5°	21.6	23.1	37.5	41.8	27.4	15.9	15.9	11.5	11.5	7.2	7.2
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)